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NEWS 14 OCT 21 BIOSIS file reloaded and enhanced  
NEWS 15 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced  
  
NEWS EXPRESS OCTOBER 01 CURRENT WINDOWS VERSION IS V6.01a, CURRENT  
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003  
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FILE COVERS 1907 - 30 Oct 2003 VOL 139 ISS 18  
FILE LAST UPDATED: 29 Oct 2003 (20031029/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s (water soluble)
    2078642 WATER
    233927 WATERS
    2129949 WATER
        (WATER OR WATERS)
    78142 SOLUBLE
    2089 SOLUBLES
    80115 SOLUBLE
        (SOLUBLE OR SOLUBLES)
    552838 SOL
    14859 SOLS
    558689 SOL
        (SOL OR SOLS)
    581505 SOLUBLE
        (SOLUBLE OR SOL)
L1    126176 (WATER SOLUBLE)
        (WATER(W) SOLUBLE)
```

```
=> s (water dispersable)
    2078642 WATER
    233927 WATERS
    2129949 WATER
        (WATER OR WATERS)
    154 DISPERSABLE
L2    36 (WATER DISPERSABLE)
        (WATER(W) DISPERSABLE)
```

```
=> s l1 or l2
L3    126203 L1 OR L2
```

```
=> s ?silane
L4    154946 ?SILANE
```

```
=> s silane?
L5    84726 SILANE?
```

```
=> s l4 or l5
L6    160318 L4 OR L5
```

```
=> s l3 and l6
L7    1146 L3 AND L6
```

```
=> s fluoro?
L8    347521 FLUORO?
```

```
=> s F or fluorine
    543177 F
    86607 FLUORINE
```

```

      463 FLUORINES
      86867 FLUORINE
            (FLUORINE OR FLUORINES)
L9      591596 F OR FLUORINE

=> s l8 or l9
L10     873033 L8 OR L9

=> s l7 and l10
L11     116 L7 AND L10

=> d l11 1-116 abs ibib
```

L11 ANSWER 1 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
AB Title compns. contain water-sol. aminosilane coupler-treated clays dispersed in rubbers. A kneaded nitrile rubber compn. contg. a peroxide and 20 phr KBM 602-treated Kunipia F showed good calender-rolling ability, transparency (well dispersed), and gas-impermeability.  
ACCESSION NUMBER: 2003:809431 CAPLUS  
TITLE: Rubber compositions with gas-barrier ability and processability and their manufacture  
INVENTOR(S): Sumida, Katsuhiko; Mashimo, Shigehiko; Takano, Nobukazu  
PATENT ASSIGNEE(S): Bridgestone Corp., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
CODEN: JKOXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003292677	A2	20031015	JP 2002-103729	20020405

PRIORITY APPLN. INFO.: JP 2002-103729 20020405

L11 ANSWER 2 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
AB Title compns. are prepd. by mixing rubber latices with clays and water-sol. aminosilane couplers. A Nipol LX 110-and Kunipia F-contg. aq. latex was stirred with KBM 602 to form a paste with good dryness at 80.degree. over 18 h, which was mixed with a peroxide to form a compn. showing good calender-rolling ability, transparency (well dispersed), and gas-impermeability.  
ACCESSION NUMBER: 2003:805841 CAPLUS  
TITLE: Rubber compositions with gas-barrier ability and processability and their manufacture  
INVENTOR(S): Sumida, Katsuhiko; Mashimo, Shigehiko; Takano, Nobukazu  
PATENT ASSIGNEE(S): Bridgestone Corp., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
CODEN: JKOXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003292678	A2	20031015	JP 2002-103722	20020405

PRIORITY APPLN. INFO.: JP 2002-103722 20020405

L11 ANSWER 3 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
AB Title inks comprise colorants, moisturizing agents, and water-sol. materials contg. fluoroalkyl groups, where the water-sol. materials undergo polycondensation reaction without water. Thus, 100 g 2-trimethoxysilylpropylamine and 61.1 g 3-trifluoromethyl-ethyltrimethoxysilane were stirred at 60.degree. for 1 h to give a copolymer, 10% of which was mixed with C.I. Acid Black 25, glycerin 10, diethylene glycol 7, and water 68% and used for an ink-jet printer, showing good dischargeability.  
ACCESSION NUMBER: 2003:767984 CAPLUS  
TITLE: Inks for ink-jet recording, ink cartridges, nozzle plates for ink-jet recording, ink-jet heads, and recording devices  
INVENTOR(S): Soga, Masamori; Arase, Hidekazu  
PATENT ASSIGNEE(S): Matsushita Electric Industrial Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 29 pp.  
CODEN: JKOXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003277664	A2	20031002	JP 2002-353175	20021205

PRIORITY APPLN. INFO.: JP 2002-3568 A 20020115

L11 ANSWER 4 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
AB The heat- and wear-resistant energy-efficient metal coating is prepd. the following steps: (1) treating 2-8 wt% nanometer SiO2 powder and 2-8 wt% nanometer TiO2 powder in 10 wt% silane coupling agent soln., then adding 15-25% alkali soln. to obtain a nanoparticle slurry; (2) mixing 3-5 wt% SiO2 (+300 meshes) with 3-5 wt% Fe2O3, 4-10 wt% SiC, 1-2 wt% CaO, 1-2 wt% Na2SiF6, 8-10 wt% kaolin and 5-10 wt% feldspar powder to obtain a filler mix; (3) feeding under const. stirring and grinding, in sequence 10-15 wt% of a 30 wt% calgon soln., 10-15 wt% of a modified silicone sol., 4-8 wt% acrylic acid, 6-10 wt% water sol., silicone oil, 4-8 wt% of a modified water glass, the filler mix, 0.5-1 wt% of a 30 wt% org. bentonite soln., 0.5-1 wt% of a 30 wt% CM-cellulose soln., 0.5-1 wt% di-Bu phthalate, 0.3-0.5 wt% acetylacetone, 0.3-0.5 wt% DMF and 0.6-1 wt% of a silane coupling agent soln., adjusting viscosity with deionized water.  
ACCESSION NUMBER: 2003:738102 CAPLUS  
DOCUMENT NUMBER: 139:215900  
TITLE: Heat- and abrasion-resistant metal coating  
INVENTOR(S): Zeng, Qingjin  
PATENT ASSIGNEE(S): Peop. Rep. China  
SOURCE: Faming Zhuenli Shenqing Gongkai Shuomingshu, 8 pp.  
CODEN: CNXXEV  
DOCUMENT TYPE: Patent  
LANGUAGE: Chinese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1357583	A	20020710	CN 2001-130126	20011226

PRIORITY APPLN. INFO.: CN 2001-130126 20011226

L11 ANSWER 5 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB A water-sol. or water-dispersible fluorochem  
silane has formula  $XmHnMmMarG$  [X = initiator residue or H; Mf  
= units derived from .gtoreq.1 fluorinated monomer; Mh = units derived  
from .gtoreq.1 nonfluorinated monomer; Ma = units having a silyl group  
SiY4Y5Y6, Y4, Y5 and Y6 = alkyl group, an aryl group or a hydrolyzable  
group; G = monovalent org. group comprising the residue of a chain  
transfer agent; n = 1-100; m = 0-100; and r = 0-100; and n+m+r .gtoreq.2;  
providing .gtoreq.1 of the following conditions is fulfilled: (a) G  
contains a silyl group SiY1Y2Y3, where Y1, Y2 and Y3 = alkyl, aryl or a  
hydrolyzable group and .gtoreq.1 of Y1, Y2 and Y3 = hydrolyzable H2O  
solubilizing group; or (b) r .gtoreq.1 and .gtoreq.1 of Y4, Y5 and Y6 = a  
hydrolyzable H2O solubilizing group].

ACCESSION NUMBER: 2003:717440 CAPLUS

DOCUMENT NUMBER: 139:231423

TITLE: Water-soluble or water-dispersible  
fluorochemical silanes for oil and  
water repellent substrates

INVENTOR(S): Dams, Rudolf J.

PATENT ASSIGNEE(S): Belg.

SOURCE: U.S. Pat. Appl. Publ., 13 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003168783	A1	20030911	US 2002-53001	20020117
PRIORITY APPLN. INFO.:			US 2002-53001	20020117

L11 ANSWER 6 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB The comps. have good cond., film-formability and storage stability, can  
be adjusted into variable viscosity with the use of a thickener and film  
thickness, and contain: (A) a sulfonate- or/and carboxyl-contg.  
water-sol. conductive polymer, (B) a crosslinking agent,  
(C1) water, (C2) org. solvent, (D) a thickener, (E) a polymeric binder,  
and (F) a surfactant. In one example a compn. comprises  
poly(2-sulfo-5-methoxy-1,4-iminophenylene) (prepn. given) 3, .gamma.-  
glycidoxypoly(methylmethoxysilane) 1.5, water 65, acetone 35,  
and Adekanol UH 420 (a thickening agent) 3 parts.

ACCESSION NUMBER: 2003:582623 CAPLUS

DOCUMENT NUMBER: 139:151161

TITLE: Conductive coating compositions and an electrostatic  
coating method therefor

INVENTOR(S): Uzuwa, Masashi; Saito, Takashi

PATENT ASSIGNEE(S): Mitsubishi Rayon Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKKXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003213148	A2	20030730	JP 2002-10718	20020118
PRIORITY APPLN. INFO.:			JP 2002-10718	20020118

L11 ANSWER 7 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB Title films show a color tone (flop value: the change of L value in JIS Z  
8730 L\*a\*b\* system) of 10-60 and are prepd. from comps. contg. (a) 100  
parts 30-45% water-sol. or dispersible OH and COOH  
group-contg. vinyl polymers having acid value of 20-300 and OH value (Vh)  
of .gtoreq.20, 10-35% OH- and alkoxy group-contg. vinyl polymers with Vh  
of 20-400, and 35-45% aminoplasts and (b) 0.05-15 parts polybutadiene  
(preferably, water-dispersed one). An aq. compn. contg. acrylic acid-Bu  
acrylate (I)-2-ethylhexyl acrylate (II)-2-hydroxyethyl acrylate  
(III)-2-hydroxyethyl methacrylate (IV)-Me methacrylate (V)-styrene (VI)  
copolymer 40, dimethylaminoethanol 2.5, I-II-III-IV-V-VI-3-  
methacryloxypropyltrimethoxysilane copolymer 25, Cymel 235 35, and  
an emulsion (Nisso PB-G 3000 50, Neopex F 25 12, and H2O 38  
parts) 0.05 part was electrodeposited on an alumite-treated Al plate and  
baked at 180.degree. to form a 10-.mu.m film with 60.degree. gloss 144,  
flop value 55.6, good smoothness and die mark hiding ability.

ACCESSION NUMBER: 2003:506817 CAPLUS

DOCUMENT NUMBER: 139:70503

TITLE: Matte electrodeposition coating films and resin  
compositions therefor

INVENTOR(S): Maeda, Satoru; Nokane, Yukihiro; Kobata, Katsuya

PATENT ASSIGNEE(S): Honey Kasei K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKKXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003183568	A2	20030703	JP 2001-402706	20011217
PRIORITY APPLN. INFO.:			JP 2001-402706	20011217

L11 ANSWER 8 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB An app. for treating an exhaust gas has a pre-treatment section for  
removing at least one of a powdery component, a water-  
sol. component and a hydrolytic component from the exhaust gas  
contg. at least one of a fluorine compd. and CO, and a heating  
oxidative decomp. section for performing heating oxidative decompn. of  
the at least one of the fluorine compd. and CO to detoxify the  
exhaust gas. The app. has a post-treatment section for post-treating an  
acid gas such as HF which has been produced by the heating oxidative  
decompn.

ACCESSION NUMBER: 2003:454181 CAPLUS

DOCUMENT NUMBER: 139:11311

TITLE: Method and apparatus for treating exhaust gas

INVENTOR(S): Shinohara, Toyoji; Mori, Yoichi; Suzuki, Yasuhiko;

Aono, Hiroshi; Shirao, Yuji

Ebara Corporation, Japan

SOURCE: PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003047729	A1	20030612	WO 2002-JP12520	20021129
W: CN, KR, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR				
PRIORITY APPLN. INFO.:			JP 2001-370656	A 20011204

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR  
THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

L11 ANSWER 9 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB The purpose of this communication is to illustrate the facile synthesis of  
 of  
 asym., di-functional poly(ethylene glycol) (PEG) linkers that can be  
 utilized to incorporate various components into biol. systems. A com.  
 available, asym. Me methacrylate (MMA) PEG underwent a series of org.  
 transformations to prep. a .alpha.-siloxy-.omega.-amino PEG linker in  
 high  
 yield and through put. Cds/SiO2 nanoparticles were prep'd. and  
 functionalized by a series of surface modification reactions modified  
 involving the prep'd. PEG linker to yield functionalized, water-  
 sol. nanoparticles. The functionality of the nanoparticles was  
 dictated by the chain end functionality of the PEG linker. Further work  
 involves the utilization of the functionalized nanoparticles into various  
 systems.  
 ACCESSION NUMBER: 2003:210992 CAPLUS  
 DOCUMENT NUMBER: 139:7333  
 TITLE: Synthesis of an .alpha.-siloxy-.omega.-amino  
 poly(ethylene glycol) for use in ligating biological  
 molecules to nanoparticles  
 AUTHOR(S): Costanzo, Philip J.; Patten, Timothy E.; Smith,  
 Rosemary  
 CORPORATE SOURCE: University of California at Davis, Davis, CA, 95616,  
 USA  
 SOURCE: Polymer Preprints (American Chemical Society,  
 Division of Polymer Chemistry) (2003), 44(1), 554-555  
 CODEN: ACPPAY; ISSN: 0032-3934  
 PUBLISHER: American Chemical Society, Division of Polymer  
 Chemistry  
 DOCUMENT TYPE: Journal; (computer optical disk)  
 LANGUAGE: English  
 REFERENCE COUNT: 4  
 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE  
 FORMAT

L11 ANSWER 10 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB The title Cu foils are treated, prior to coating, with silane  
 coupling agents RnSiX4-n (R = alkyl or Ph group (may contain groups  
 substituted by W, and groups such as ether bonds inactive to  
 resins), X = hydrolysis group such as Cl, OCH3, OC2O2H3, OCH2CH2CH3, and  
 n  
 = 1-3). The Cu foils have excellent soft etching characteristic.  
 ACCESSION NUMBER: 2003:172338 CAPLUS  
 DOCUMENT NUMBER: 138:230079  
 TITLE: Copper foils coated with water-  
 soluble resin carriers for printed circuit  
 boards  
 INVENTOR(S): Akase, Fumiaki  
 PATENT ASSIGNEE(S): Nikko Materials Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKKXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003069173	AZ	20030307	JP 2001-255508	20010827
PRIORITY APPLN. INFO.:			JP 2001-255508	20010827

L11 ANSWER 11 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB A polyester fiber is formed from a polyester compn. comprising (i) a  
 lamellar compd. treated with at least one member selected from the group  
 consisting of polyether compds. and silane compds. and (ii) a  
 thermoplastic polyester resin. Also provided is a polyester fiber formed  
 from a polyester compn. comprising (iii) a lamellar compd. treated with a  
 water-sol. or water-miscible phosphorus compd. flame  
 retardant and (iv) a thermoplastic polyester resin. Thus, a compn.  
 comprising 90 parts Bellpet EFG 10 and 10 parts Bisol 18EN-treated  
 Somasif  
 ME 100 gave a fiber with fineness 53 dtex, strength 2.4 cN/dtex,  
 elongation 51%, m.p. 253.degree., crystallinity 36%, and good dripping  
 resistance in combustion.  
 ACCESSION NUMBER: 2002:833037 CAPLUS  
 DOCUMENT NUMBER: 137:326515  
 TITLE: Polyester fibers containing lamellar compounds with  
 good dripping resistance in combustion  
 INVENTOR(S): Masuda, Toshiyuki; Kowaki, Toshihiro  
 PATENT ASSIGNEE(S): Kaneka Corporation, Japan  
 SOURCE: PCT Int. Appl., 48 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002086209	A1	20021031	WO 2002-JP3593	20020411

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
 GR, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,  
 PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,  
 UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,  
 TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,  
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,  
 BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
 PRIORITY APPLN. INFO.:

JP 2001-117405	A	20010416
JP 2001-117819	A	20010417
JP 2001-119797	A	20010418

REFERENCE COUNT: 6  
 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE  
 FORMAT

L11 ANSWER 12 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB The films possess, on one side of plastic supports, anchorcoat layers,  
 gas-barrier layers comprising M2O.nSiO2 (M = alkali metal), and topcoats  
 of OH-bearing water-sol. polymers, in succession. The  
 gas-barrier layers may contain N compds., water-sol.  
 polymers, and/or org. Si compds. Thus, PF 20 (20-.mu.m-thick  
 polypropylene film) was coated with an anchorcoat of 30:70 M 407  
 (urethane  
 isocyanate)/D 217 (isocyanurated TDI) mixt., a gas-barrier coating contg.  
 LSS 35/LSS 45 (Li silicate), A 1122 [N-(2-aminoethyl)-3-  
 aminopropyltrimethoxysilane], and R 2105 (silane  
 -modified PVA), and an overcoating contg. PVA 110 [poly(vinyl alc.)] and  
 Kunipia F (montmorillonite) and then subjected to extrusion  
 lamination with Mirason 14P (polyethylene) via TUX TCS (25-.mu.m-thick  
 LLDPE film) to give a multilayer film showing O permeability 10.8  
 initially and 266.9 mL/m224hMPa after 100-time Gelbo flex test and  
 interlayer peeling strength 2.00 N/15 mm.  
 ACCESSION NUMBER: 2002:820152 CAPLUS  
 DOCUMENT NUMBER: 137:326289  
 TITLE: Multilayer gas-barrier packaging films with improved  
 visibility and capable of metal detector uses  
 INVENTOR(S): Hayashi, Kenji; Kitahara, Satoru; Matsuo, Ryukichi  
 PATENT ASSIGNEE(S): Toppan Printing Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.  
 CODEN: JKKXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002316381	AZ	20021029	JP 2001-120838	20010419
PRIORITY APPLN. INFO.:			JP 2001-120838	20010419

L11 ANSWER 13 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB The metal substrates are pretreated to improve polymer adhesion by: (a) intergranular etching the metal surface; (b) applying a metal coating on the etched surface in immersion bath; (c) optional treatment of the coated surface with an organosilane from eq. bath; and (d) bonding the coated surface to a dielec. polymer. The intergranular etching bath typically contains an acid, oxidizer, corrosion inhibitor, and halide. The metal coating is selected from Sn, Ag, Bi, Cu, Ni, Pb, Zn, Pt, Pd, Au, Ru, Co, Ga, and/or Ge. The polymer is typically PTFE, epoxy resin, polyimide, polycyanate ester, and/or butadiene terephthalate resin. The process is suitable for manuf. of laminates by polymer bonding to etched metal foils.

ACCESSION NUMBER: 2002:778239 CAPLUS  
DOCUMENT NUMBER: 137:282788  
TITLE: Metal surface treatment by etching and coating for improved adhesion of polymeric materials  
INVENTOR(S): Whitney, Dickson L., Jr.; Bokisa, George S.; Bishop, Craig V.; Vitale, Americus C.; Kochilla, John R.  
PATENT ASSIGNEE(S): Atotech Deutschland G.m.b.H., Germany  
SOURCE: PCT Int. Appl., 95 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002079542	A2	20021010	WO 2001-1B2901	20010723
WO 2002079542	A3	20030206		
WO 2002079542	C2	20030320		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW			
RW:	AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR			
US 6506314	B1	20030114	US 2000-628036	20000727
EP 1310142	A2	20030514	EP 2001-273512	20010723
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
PRIORITY APPLN. INFO.:			US 2000-628036 A	20000727
			WO 2001-1B2901 W	20010723

OTHER SOURCE(S): MARPAT 137:282788

L11 ANSWER 15 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB The title triazole compds. XOCOLOR [wherein X represents such a group that the compd. represented by the formula XOH has antifungal activity; L represents (C6-10 aryl)CH2, etc.; further detail on said aryl is given; and R represents P(O)(OH)2, etc.] are prep'd. The conversion of one compd. of this invention into a fungicidal metabolite by human liver microsomes was demonstrated. A formulation is given.

ACCESSION NUMBER: 2002:658113 CAPLUS  
DOCUMENT NUMBER: 137:201316  
TITLE: Preparation of water-soluble triazole fungicides  
INVENTOR(S): Mori, Makoto; Kagoshima, Yoshiko; Uchida, Takuya; Konosu, Toshiyuki; Shibayama, Takahiro  
PATENT ASSIGNEE(S): Sankyo Company, Limited, Japan  
SOURCE: PCT Int. Appl., 301 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002066465	A1	20020829	WO 2002-JP1500	20020220
W:	AU, BR, CA, CN, CO, CZ, HU, ID, IL, IN, KR, MK, NO, NZ, PH, PL, RU, SG, SK, US, VN, ZA			
RW:	AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR			
JP 2002322176	A2	20021108	JP 2002-44541	20020221
PRIORITY APPLN. INFO.:			JP 2001-46890 A	20010222
OTHER SOURCE(S):			MARPAT 137:201316	
REFERENCE COUNT:			7	THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L11 ANSWER 14 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB Title water-resistant inks contain humectants, penetrants, colorants, and water-sol. compds. (A; e.g., hydrolyzable silanes) which undergo polycondensation in water-free state, optionally and fluoroalkyl monohydric alcs. having b.p. of 10-50 °C, and show a 25 degree surface tension (Ts) of 20-50 mN/m before the A are polycondensated. An ink comprising C.I. acid black 25, glycerol 10, diethylene glycol monobutyl ether 5, a 3-aminopropyltrimethoxysilane hydrolyzate and tetramethoxysilane hydrolyzate blend 5, and water 75% showed Ts 40 mN/m and viscosity 2.1 cP at 25 degree. and gave prints with no smudges after soaking in water.

ACCESSION NUMBER: 2002:716393 CAPLUS  
DOCUMENT NUMBER: 137:249245  
TITLE: Aqueous ink-jet inks, solvents therefor, cartridges and printing apparatus therewith  
INVENTOR(S): Soga, Mamoru; Arase, Hidekazu; Matsuo, Hiroyuki; Tatekawa, Masachiro  
PATENT ASSIGNEE(S): Matsushita Electric Industrial Co., Ltd., Japan  
SOURCE: PCT Int. Appl., 53 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002072720	A1	20020919	WO 2002-JP2221	20020308
W:	CN, JP, US			
RW:	AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR			
PRIORITY APPLN. INFO.:			JP 2001-64375 A	20010308
			JP 2001-64470 A	20010308
			JP 2001-290923 A	20010925
			JP 2001-290993 A	20010925
REFERENCE COUNT:		15	THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE	

FORMAT

L11 ANSWER 16 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB The present invention provides a water sol. or water dispersible fluorochem. silane represented by the general formula: X-MfnMmMar-G wherein X represents the residue of an initiator or hydrogen; Mf represents units derived from one or more fluorinated monomer; Mh represents units derived from one or more non-fluorinated monomer; Ma represents units having a silyl group represented by SiY1Y2Y3, wherein each of Y4, Y5 and Y6 independently represents an alkyl group, an acyl group or a hydrolyzable group; G is a monovalent org. group comprising the residue of a chain transfer agent; n represents a value of 1 to 100; m represents a value of 0 to 100; and r represents a value of 0 to 100; and n+m+r is at least 2; with the proviso that at least one of the following conditions is fulfilled: (a) G contains a silyl group SiY1Y2Y3, wherein Y1, Y2 and Y3 each independently represents an alkyl group, an acyl group or a hydrolyzable group and at least one of Y1, Y2 and Y3 represents a hydrolyzable water solubilizing group or (b) r is at least 1 and at least one of Y4, Y5 and Y6 represents a hydrolyzable water solubilizing group. A material was prep'd. by telomerization of N-Me perfluorooctyl sulfonamide ethylacrylate, A-160, and A-174, followed by reaction with Carbowax 550.

ACCESSION NUMBER: 2002:553099 CAPLUS  
DOCUMENT NUMBER: 137:109984  
TITLE: Water soluble or water dispersible fluorochemical silanes for rendering substrates oil and water repellent.  
INVENTOR(S): Dams, Rudi  
PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA  
SOURCE: Eur. Pat. Appl., 23 pp.  
CODEN: EPXKDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1225188	A1	20020724	EP 2001-200208	20010119
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
WO 2002057329	A1	20020725	WO 2002-US1675	20020117
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, FR, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TG, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRIORITY APPLN. INFO.:			EP 2001-200208 A	20010119
REFERENCE COUNT:		4	THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE	

FORMAT

L11 ANSWER 17 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
AB The reaction product obtained by cohydrolysis and condensation of (A) a fluorinated alkyl-bearing alkoxyasilane, (B) an amino-bearing alkoxyasilane, and (C) an alkoxyalkyl-bearing polyorganosiloxane is dissolved in water to provide a water-sol., water/oil repellent treating compn. This water/oil repellent treating compn. has improved water soly. and shelf stability, has no detrimental effects on the environment because of the aq. system, and imparts fully durable water repellency and satisfactory softness and hand to textiles. An oil/water repellent was prepd. from C8F17(CH2)2Si(OCH3)3, (CH3)3SiO(Si(CH3)2O)9Si(OCH3)3, and NH2(CH2)3Si(OCH3)3.  
ACCESSION NUMBER: 2002:486263 CAPLUS  
DOCUMENT NUMBER: 137:64508  
TITLE: Water-soluble, water/oil repellent treating composition containing siloxanes and method of production  
INVENTOR(S): Miyadai, Shinji; Matsumura, Kazuyuki; Yamamoto, Akira  
PATENT ASSIGNEE(S): Shin-Etsu Chemical Co., Ltd., Japan  
SOURCE: Eur. Pat. Appl., 15 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1217119	A1	20020626	EP 2001-310597	20011219
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2002194336	A2	20020710	JP 2000-390204	20001222
US 2002132952	A1	20020919	US 2001-20985	20011219
US 6582620	B2	20030624		

PRIORITY APPL. INFO.: JP 2000-390204 A 20001222  
OTHER SOURCE(S): MARPAT 137:64508  
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

L11 ANSWER 18 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
AB The invention relates to a method for coating a metallic strip. The strip or optionally, the strip sections produced from said strip in the subsequent process, is/are coated first with at least one anticorrosion layer and then with at least one layer of a paint-like coating contg. polymers and/or with at least one paint coating. After being coated with at least one anticorrosion layer or after being coated with at least one layer of a paint-like coating and/or with at least one paint coating, the strip is divided into strip sections. The coated strip sections are then formed, joined and/or coated with at least one (other) paint-like coating and/or paint coating. At least one of the anticorrosion layers is formed by coating the surface with an aq. dispersion contg. the following in addn. to water: (a) at least one org. film former contg. at least one water-sol. or water-dispersed polymer; (b) a quantity of cations and/or hexa- or tetrafluoro complexes of cations chosen from a group consisting of titanium, zirconium, hafnium, silicon, aluminum and boron; and (c) at least one inorg. compd. in particle form with an av. particle diam. measured on a scanning electron microscope of 0.005 to 0.2 .mu.m. The clean metallic surface is brought into contact with the aq. compn. and a film contg. particles is formed on the metallic surface, this film then being dried and optionally also hardened, the dried and optionally, also hardened film having a layer thickness of 0.01 to 10 .mu.m. The speed of coating metal objects with complex profiles is high using this process and need of Cr6+ compds. and acids is reduced. The coated products are useful in manuf. of automobile bodies, aircraft, and spacecraft.  
ACCESSION NUMBER: 2002:293775 CAPLUS  
DOCUMENT NUMBER: 136:326996  
TITLE: Method for pretreating and subsequently coating metallic surfaces with a paint-type coating prior to forming and use of substrates coated in this way  
INVENTOR(S): Shimakura, Toshiaki; Bittner, Klaus; Domes, Heribert; Wietzorek, Hardy; Jung, Christian  
PATENT ASSIGNEE(S): Chemteall GmbH, Germany  
SOURCE: PCT Int. Appl., 115 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 6  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002031065	A2	20020418	WO 2001-EP11738	20011010
WO 2002031065	A3	20020627		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2002015940	A5	20020422	AU 2002-15940	20011010
EP 1330499	A2	20030730	EP 2001-986707	20011010
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

PRIORITY APPL. INFO.: DE 2000-10050532 A 20001011

L11 ANSWER 18 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN (Continued)  
DE 2001-10110830 A 20010306  
DE 2001-10119606 A 20010421  
WO 2001-EP11738 W 20011010

L11 ANSWER 19 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
AB Title paints, which are printed on water-wetting or oil-in-water emulsion-coated surfaces by discharging as dot-like paints, contain water-sol. solvents and 0.01-1% silanes RmSiX4-m (R = alkyl or fluoroalkyl; X = hydrolyzable group; m = 1-2) to ensure the storage stability and smudge prevention. A paint comprising polyvinyl butyral 15, EtOH 74.99, TiO2 10, and MeSi(OEt)3 0.01% showed no pptn. after 10 days at room temp. and was discharged on a water-wet stainless steel plate to form sharp dots.  
ACCESSION NUMBER: 2002:169771 CAPLUS  
DOCUMENT NUMBER: 136:218386  
TITLE: Paints and printing method therefor  
INVENTOR(S): Sano, Yoshitaka  
PATENT ASSIGNEE(S): Marktec Corp., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.  
CODEN: JHXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002069336	A2	20020308	JP 2000-262772	20000831
PRIORITY APPL. INFO.: JP 2000-262772 20000831				
OTHER SOURCE(S): MARPAT 136:218386				



L11 ANSWER 20 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
AB Coating materials contain elec. conductive polymers of polythiophene cations and polyanions 100, water-sol. liq. compds. having amide linkages or OH groups 40-6000, self-emulsifying polyester aq. dispersions 20-5000, and optionally epoxysiloxanes 20-300 parts. Thus, a coating material on a polyester film contained Baytron P 35.0, N-methylpyrrolidone 0.2, 1,4-butanediol-ethylene glycol-isophthalic acid-5-sulfisophthalic acid-terephthalic acid copolymer 6.0, an F surfactant 0.7, and H2O 58.1 g.  
ACCESSION NUMBER: 2002:147810 CAPLUS  
DOCUMENT NUMBER: 136:185475  
TITLE: Antistatic coating materials  
INVENTOR(S): Chigusa, Yasuo; Kai, Daisuke  
PATENT ASSIGNEE(S): Nagase Chemtex Corp., Japan; Nagase and Co., Ltd.  
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
CODEN: JIOXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002060736	A2	20020226	JP 2000-253289	20000824
PRIORITY APPLN. INFO.:			JP 2000-253289	20000824

L11 ANSWER 21 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
AB This invention relates to chem. compns. comprising .gtoreq.1 urethaneoligomers of .gtoreq.2 repeating units selected from the group consisting of F-contg. urethane oligomers and long-chain hydrocarbon-contg. urethane oligomers. These urethane oligomers comprise the reaction product of (a) .gtoreq.1 polyfunctional isocyanate compds., (b) .gtoreq.1 polyols, (c) .gtoreq.1 monoisocyanates, selected from the group consisting of fluorethene monoisocyanates, optionally substituted long-chain hydrocarbon monoisocyanates, and mixts., (d) .gtoreq.1 silanes; and optionally (e) .gtoreq.1 water-solubilizing compds. comprising .gtoreq.1 water-solubilizing groups and .gtoreq.1 isocyanate-reactive H contg. group. The chem. compns. can be applied as coatings and these coatings can impart stain-release characteristics and resist being worn-off due to wear and abrasion. The water-sol. N-3300-(C4F9SO2N(CH2CH2O)2)-glycolic acid-3-aminopropyltriethoxysilane condensate methyldiethanolamine salt form was coated as a 3% soln. on slate tile; showing excellent stain resistance to grape juice, transmission fluid, motor oil, wine, coffee, brake fluid, and corn oil.  
ACCESSION NUMBER: 2002:142819 CAPLUS  
DOCUMENT NUMBER: 136:201928  
TITLE: Urethane-based stain-release coatings  
INVENTOR(S): Fan, Wayne W.; Martin, Steven J.; Qiu, Zai-Ming; Terrazas, Michael S.  
PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA  
SOURCE: PCT Int. Appl., 81 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002014443	A2	20020221	WO 2001-US22059	20010712
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, BG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 2001073428	A5	20020225	AU 2001-73428	20010712
PRIORITY APPLN. INFO.:			US 2000-225061P	P 20000814
			US 2000-226049P	P 20000816
			US 2001-804447	A 20010312
			WO 2001-US22059	W 20010712

L11 ANSWER 22 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
AB Hair care water-in-oil emulsion compns. comprise a discontinuous phase which comprises a water-sol. polyalkylene glycol having a no. av. mol. wt. of 200-900 and 4-18 repeating alkylene oxide radicals, wherein each of the repeating alkylene oxide radicals has 2-6 carbon atoms; and a continuous phase which comprises a silicone emulsifier, and a volatile, hydrophobic solvent. Methods for styling hair comprise applying the emulsion compns. to hair. Thus, a formulation contained DC 5225C 10.0, SF 1202 7.0, water 69.03, Luviscol VA 73W 2.0, Carbowax 600 10.0, Isosteareth-20 0.65, benzyl alc. 0.5, phenoxyethanol 0.3, methylparaben 0.2, disodium EDTA 0.12, and perfume 0.2%.  
ACCESSION NUMBER: 2002:122748 CAPLUS  
DOCUMENT NUMBER: 136:189070  
TITLE: Water-in-oil emulsion compositions comprising polyalkylene glycol hair styling agents  
INVENTOR(S): Carballada, Jose Antonio; Kuhlman, Dennis Eugene  
PATENT ASSIGNEE(S): The Procter & Gamble Company, USA  
SOURCE: PCT Int. Appl., 27 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002011684	A2	20020214	WO 2001-US23749	20010727
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, BG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2001080858	A5	20020218	AU 2001-80858	20010727
EP 1309306	A2	20030514	EP 2001-959285	20010727
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
PRIORITY APPLN. INFO.:			US 2000-631314	A 20000803
			WO 2001-US23749	W 20010727

L11 ANSWER 23 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
AB The one and two-dimensional sepn. of proteins extending through the membrane (membrane proteins) is a prerequisite for a complete anal. of the proteome of a functionally intact cell organelle. A substantial drawback of prior art methods for sepg. is that their applicability is limited to peripheral water-sol. proteins. The aim of the novel method is to electrophoretically sep. membrane proteins in one or two dimensions. To this end, membranes from cell organelles, whose membrane protein stock should be sepd., are placed on planar supports whose surface was modified using suitable methods in such a manner that the membrane proteins maintain their ability to laterally diffuse in the membrane plane after being placed on the support. By subsequently applying elec. fields, the proteins can be electrophoretically displaced in the membrane plane and, as a result, can be sepd. in one or two dimensions according to their different charge characteristics.  
ACCESSION NUMBER: 2001:904281 CAPLUS  
DOCUMENT NUMBER: 136:17699  
TITLE: Method for electrophoretically separating membrane proteins  
INVENTOR(S): Bayerl, Thomas; Sackmann, Erich  
PATENT ASSIGNEE(S): Nimbus Biotechnologie GmbH, Germany  
SOURCE: PCT Int. Appl., 21 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001094421	A2	20011213	WO 2001-EP6234	20010601
WO 2001094421	A3	20020510		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, BG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
DE 10027705	A1	20011213	DE 2000-10027705	20000603
AU 2001079639	A5	20011217	AU 2001-79639	20010601
US 2003159933	A1	20030828	US 2003-297214	20030428
PRIORITY APPLN. INFO.:			DE 2000-10027705	A 20000603
			WO 2001-EP6234	W 20010601

L11 ANSWER 24 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB The chromate-free aq. bath suitable for primer coating of steel contains:  
 (a) organosilane coupling agent (or hydrolytic condensation product) at 0.01-100 g/L; (b) colloidal water-dispersible SiO<sub>2</sub> at 0.05-100 g/L; and (c) Zr or Ti compd. at 0.01-50 g ions/L; and/or (d) thiocarbonyl-contg. compd. at 0.01-100 g/L; and/or (e) water-sol. acrylic resin at 0.1-100 g/L; and (f) optional phosphate ions at 0.01-100 g/L. The aq. bath is suitable for coating of galvanized steel, tinplate, and other metal-precoated steel articles.  
 The primer coating typically finished by drying at .apprx.60.degree., and baking at 150-250.degree.. The coated steel sheets show increased corrosion resistance, are suitable for press forming and similar metalworking, and can be finished by conventional painting. The typical aq. bath based on 1 L of water is prepd. in sequence with gamma.-aminopropyltriethoxysilane 2.5 g, colloidal SiO<sub>2</sub> 1.0 g, zirconyl ammonium carbonate 2.5 g of Zr, thiourea 5.0 g, and (NH<sub>4</sub>)<sub>2</sub>PO<sub>4</sub> 1.25 g as phosphate.  
 ACCESSION NUMBER: 2001:654754 CAPLUS  
 DOCUMENT NUMBER: 135:214113  
 TITLE: Nonchromate bath for primer coating of steel or metal-precoated steel surface for corrosion resistance  
 INVENTOR(S): Shimakura, Toshiaki; Sasaki, Motohiro; Yamasoe, Katsuyoshi; Nomura, Hiromasa; Kanai, Hiroshi; Ueda, Kouhei  
 PATENT ASSIGNEE(S): Nippon Paint Co., Ltd., Japan  
 SOURCE: Eur. Pat. Appl., 14 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:  

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1130131	A2	20010905	EP 2001-103593	20010221
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2001316845	A2	20011116	JP 2000-243049	20000810
US 2001042491	A1	20011122	US 2001-793710	20010227
US 6475300	B2	20021105		
CN 1381532	A	20021127	CN 2001-116679	20010419
PRIORITY APPLN. INFO.:			JP 2000-52994	A 20000229
			JP 2000-243049	A 20000810

L11 ANSWER 25 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB Fourteen water-sol. trivalent metal chlorides from lanthanum to lutetium in the 1st-row of the f-block form complexes with poly(vinyl amine) and increase the glass transition temp. from 57.degree.C to well above 100.degree.C at very low molar concns. of the lanthanide. The large ionic radii of these hard-acid cations allow several hard-base amino side groups in the polymer to occupy sites in the first shell coordination sphere via ion-dipole (i.e., electrostatic) interactions, which leads to micro clustering of the ligands about a single metal center. The enhancement in the glass transition temp. is explained in terms of multi-functional coordination crosslinking. f-Block salts induce larger increases in T<sub>g</sub> relative to transition metal-complexes from the d-block, however CoCl<sub>2</sub>(H<sub>2</sub>O)<sub>6</sub> performs comparably to some of the more efficient lanthanides. Blends of poly(vinyl amine) and trimethoxy silyl-Pr poly(ethylene imine)hydrochloride form complexes with europium(III) and exhibit synergistic single T<sub>g</sub> response. Since lanthanides form very stable complexes with chelating (i.e., bidentate) oxygen ligands, it is possible to increase the elastic modulus of com. important copolymers of ethylene and methacrylic acid via Eu<sup>3+</sup> complexation with the carboxylate anion. This claim is verified by IR spectroscopy. Temp. and pH-sensitive applications for drug delivery and removal of contaminants from wastewater streams should increase the utility of these lanthanide complexes.  
 ACCESSION NUMBER: 2001:580488 CAPLUS  
 DOCUMENT NUMBER: 135:289506  
 TITLE: Thermophysical property modifications in functional polymers via lanthanide trichloride hydrates  
 AUTHOR(S): Belfiore, Laurence A.; Ruzmaikina, Izolda Y.; Das, Pronab K.  
 CORPORATE SOURCE: Polymer Physics & Engineering Laboratory Department of Chemical Engineering, Colorado State University, Fort Collins, CO, 80523, USA  
 SOURCE: Polymer Engineering and Science (2001), 41(7), 1196-1205  
 CODEN: PYESAZ; ISSN: 0032-3888  
 PUBLISHER: Society of Plastics Engineers  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 36  
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
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L11 ANSWER 26 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB Disclosed is a base film that has excellent electromagnetic conversion property over the entire length from a roll core portion to a surface portion of the film product and that is suitable for the prodn. of digital videotapes with reduced dropouts. A polyester film for a magnetic recording medium includes at least a polyester layer A and a polyester layer B laminated. A center-line surface av. roughness (SRA value) of a layer A-side surface of the film is 2 nm to 4 nm, and a 10-point av. surface roughness (SRz value) of the layer A-side surface is 10 nm to 40 nm. The layer B contains a fine particle .alpha. whose av. particle size is .gtoreq.50 nm and <250 nm, and a fine particle .beta. whose av. particle size is .gtoreq.250 nm and <500 nm. The content of the fine particle .alpha. in the layer B is 0.1% to 1.0%. The content of the fine particle .beta. in the layer B is 0.01% to 0.10%. A magnetic recording tape is formed by providing a ferromagnetic metal thin film on a layer A-side surface of the polyester film.  
 ACCESSION NUMBER: 2001:472091 CAPLUS  
 DOCUMENT NUMBER: 135:54921  
 TITLE: Polyester film for magnetic recording medium, and magnetic recording tape  
 INVENTOR(S): Ono, Masaaki; Katsuya, Okamoto; Tsuzuki, Toshihiro; Morimoto, Tsutomu  
 PATENT ASSIGNEE(S): Toray Industries, Inc., Japan  
 SOURCE: Eur. Pat. Appl., 18 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:  

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1111594	A1	20010627	EP 2000-127798	20001219
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2001243616	A2	20010907	JP 2000-377517	20001212
US 6468627	B2	20021022	US 2000-739012	20001219
US 2001006743	A1	20010705		
CN 1311507	A	20010905	CN 2000-136457	20001225
PRIORITY APPLN. INFO.:			JP 1999-366403	A 19991224
REFERENCE COUNT: 12				
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FORMAT				

L11 ANSWER 27 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB A coating for fibrous substrate materials used in high temp. filtration applications is described. The coating is formed by applying a compn. comprising a water-sol. metal alkoxide, organosilane and/or metal oxide precursor, wetting and chelating agents, and optionally a coupling agent in aq. soln. on the surface of the glass fiber substrate before curing the coated substrate at 700.degree.F for up to 4 h. The cured coating provides protection of the fibrous surface at high temp. by preventing self-abrasion, while increasing its strength, flexibility and use life.  
 ACCESSION NUMBER: 2001:167916 CAPLUS  
 DOCUMENT NUMBER: 134:197002  
 TITLE: Abrasion-resistant water-soluble sol-gel coatings for glass fiber substrates  
 INVENTOR(S): Kalinowski, Marie R.; Cofer, Cameron G.  
 PATENT ASSIGNEE(S): Owens Corning, USA  
 SOURCE: PCT Int. Appl., 22 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:  

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001016044	A1	20010308	WO 2000-US24224	20000831
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, BG, CZ, DE, DK, DR, ES, FI, FR, GB, GR, GT, HE, HK, HU, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, BG, CZ, DE, DK, DR, ES, FI, FR, GB, GR, GT, HE, HK, HU, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, BG, CZ, DE, DK, DR, ES, FI, FR, GB, GR, GT, HE, HK, HU, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, 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LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, BG, CZ, DE, DK, DR, ES, FI, FR, GB, GR, GT, HE, HK, HU, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, BG, CZ, DE, DK, DR, ES, FI, FR, GB, GR, GT, HE, HK, HU, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, BG, CZ, DE, DK, DR, ES, FI, FR, GB, GR, GT, HE, HK, HU, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, BG, CZ, DE, DK, DR, ES, FI, FR, GB, 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L11 ANSWER 28 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB The film showing high water vapor impermeability and temp-independent O impermeability, is obtained by forming (A) a gas-barrier polymer layer and (B) a water-dispersible layered silicate salt layer on at least one side of a thermoplastic resin substrate. The gas-barrier layer consists of (1) a mixt. of water-sol. polymers and partially hydrolyzed polycondensates of metal alkoxides and/or Si alkoxides and/or (2) a reaction product of the water-sol. polymers and the polycondensates. Thus, a surface-pretreated polypropylene film was coated with an aq. mixt. contg. tetraethoxysilane, .gamma.-glycidyloxypropyltrimethoxysilane, and Soarnol 20L (EVOH), dried, then coated with a dispersion contg. Kunipia F (montmorillonite), and dried to give a film showing water vapor permeability 1.7 g/m2-day and O permeability 0.8 cc/m2-day-atm.

ACCESSION NUMBER: 2001:38368 CAPLUS  
 DOCUMENT NUMBER: 134:87324  
 TITLE: Gas-barrier multilayer film for packaging  
 INVENTOR(S): Umekawa, Hideki; Inui, Yoji; Sugita, Yuza  
 PATENT ASSIGNEE(S): Tokuyama Corp., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho; 9 pp.  
 CODEN: JKXKAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001009974	A2	20010116	JP 2000-120950	20000421
PRIORITY APPLN. INFO.:			JP 1999-121240	A 19990428

L11 ANSWER 29 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB A compn. for interacting with a ligand, which compn. comprises a non-covalent assocn. of a plurality of distinct conjugates, each conjugate comprising a head group and a tail group, wherein the tail groups of the conjugates form a hydrophobic aggregation and the conjugates are movable within the assocn. so that, in the presence of a ligand, at least two of the head groups are appropriately positioned to form an epitope capable of interacting with the ligand more strongly than each of head groups individually. The invention aims to overcome the problems involved in the development of protein receptor-specific therapeutic conjugates that includes evoking immune response or attacking by endopeptidases. The conjugates comprise a head group of amino acid, peptide, monosaccharide, polysaccharide, nucleotide, polynucleotide, sterol, water-sol. vitamin, porphyrin, metal ion chelate, water-sol. drug, hormone, enzyme substrate; a spacer of hydroxy acid, amino acid, sugar or polyethylene glycol; and a tail group of branched-chain fatty acid, alc., aldehyde, prostaglandin, leukotriene, glyceride, sphingosine, ceramide, silicon or deriv.

ACCESSION NUMBER: 2001:12729 CAPLUS  
 DOCUMENT NUMBER: 134:91090  
 TITLE: Epitopes formed by non-covalent association of conjugates  
 INVENTOR(S): New, Roger; Toth, Istvan  
 PATENT ASSIGNEE(S): Provalis UK Limited, UK  
 SOURCE: PCT Int. Appl., 39 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001001140	A1	20010104	WO 2000-GB2465	20000627
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
BR 2000012002	A	20020312	BR 2000-12002	20000627
EP 1190255	A1	20020327	EP 2000-942216	20000627
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2003503424	T2	20030128	JP 2001-507094	20000627
PRIORITY APPLN. INFO.:			GB 1999-15074	A 19990628
			WO 2000-GB2465	W 20000627
REFERENCE COUNT: 3			THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE	
FORMAT				

L11 ANSWER 30 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB Oligonucleotides and other biomols. are immobilized in high d. on solid substrates through covalent forces using either a permanent thioether bond, or a chemoselectively reversible disulfide bond to a surface thiol. Substrates which have hydroxyl groups on their surfaces can be first silanized with a trichlorosilane contg. 2-20 carbon atoms in its hydrocarbon backbone, terminating in a protected thiol group. The oligonucleotides or other biomols. are first connected to a tether consisting of a hydrocarbon or polyether chain of 2-20 units in length which terminates in a thiol group. This thiol may be further modified with a halobenzyl-bifunctional water sol. reagent which allows the conjugate to be immobilized onto the surface thiol group by a permanent thioether bond. Alternatively, the oligonucleotide-tether-thiol group can be converted to a pyridyldisulfide functionality which attaches to the surface thiol by a chemoselectively reversible disulfide bond. The permanently bound oligonucleotides are immobilized in high d. compared to other types of thiol functionalized silane surface and to the avidin-biotin method. Thiol oligonucleotide was reacted with 2,5-bis(bromomethyl) benzenesulfonate, sodium salt (BMBS). Silicon substrates were silanized with 30% 1-(thiofluoroacetato)-11-(trichlorosilyl)undecane (TTU)/70% octyltrichlorosilane. The TTU surfaces were deprotected with hydroxylamine and then reacted with BMBS-thiol oligonucleotide. The TTU surfaces immobilized 5550% nucleic acid compared to the avidin-biotin method.

ACCESSION NUMBER: 2000:875705 CAPLUS  
 DOCUMENT NUMBER: 134:39177  
 TITLE: High surface density covalent immobilization of oligonucleotide monolayers or biomolecules for biosensors  
 INVENTOR(S): McGovern, Mark; Thompson, Michael  
 PATENT ASSIGNEE(S): Can.  
 SOURCE: U.S., 21 pp., Cont.-in-part of U.S. Ser. No. 951,448.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6159695	A	200001212	US 1999-301287	19990428
US 6169194	B1	20010102	US 1997-951448	19971016
PRIORITY APPLN. INFO.:			US 1997-951448	A2 19971016
REFERENCE COUNT: 5			THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE	
FORMAT				

L11 ANSWER 31 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB This present invention relates to a cosmetic makeup compn. comprising (1) cohesive titania in anatase cryst. form having a primary particle diam. 0.001-0.15 .mu.m and a secondary particle diam. 0.6-2.0 .mu.m and (2) .gtoreq. 1 powders selected from the group consisting of silk, chitin, chitosan, and dyed silk. The titania particles are coated with metal oxides or water-sol. polymers to provide a transparent natural color upon application.

ACCESSION NUMBER: 2000:833242 CAPLUS  
 DOCUMENT NUMBER: 134:21290  
 TITLE: Cosmetic makeups comprising titania and organic compound powders  
 INVENTOR(S): Kuroda, Akihiro  
 PATENT ASSIGNEE(S): Kanebo, Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXKAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000327531	A2	20001128	JP 1999-142970	19990524
PRIORITY APPLN. INFO.:			JP 1999-142970	19990524

L11 ANSWER 32 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB The device is manufd. by the process involving forming an elec. insulator film having sp. dielec. coeff. .ltoreq.2.5; which is preferably made of a solvent-sol. resin and a partial hydrolyzate of an alkoxysilane, and polishing the layer by using a polisher, preferably an aq. slurry of Ce oxide particles. Global planarization is possible on the intermediate elec. insulator film by the process and ultralarge scale integrated circuits can be obtained.

ACCESSION NUMBER: 2000:723629 CAPLUS  
DOCUMENT NUMBER: 133:289917  
TITLE: Manufacture of semiconductor device involving chemical

INVENTOR(S): mechanical polishing for planarization  
Narita, Takenori; Kurata, Yasushi; Morishima, Hiroyuki; Honda, Yoshihiko; Yokozuka, Shunsuke; Matsukura, Ikuo

PATENT ASSIGNEE(S): Hitachi Chemical Co., Ltd., Japan; Asahi Glass Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.  
CODEN: JXXXXF

DOCUMENT TYPE: Patent  
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000286255	A2	20001013	JP 1999-91610	19990331

PRIORITY APPLN. INFO.: JP 1999-91610 19990331

OTHER SOURCE(S): MARPAT 133:289917

L11 ANSWER 33 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB The title ink-jet recording sheet comprises a support coated with an ink-receiving layer contg. a synthetic amorphous silica, a cationic resin, and, as a water-sol. binder, a water-sol. graft polymer formed by graft copolymn. of hydrophilic radically polyng. vinyl monomers 100-60 and other copolymerizable vinyl monomers 0-40 wt.% in a water-sol. soln. or dispersion contg. a water-sol. polyester and/or water-sol. polyurethane with av. mol. wt. 4000-30,000 and poly(vinyl alc.) with sapon. degree 75-100% and polymn. degree 500-5000. The sheet shows high ink absorption and provides high quality images with high clearness, water resistance, and storage stability under high moisture conditions.

ACCESSION NUMBER: 2000:634871 CAPLUS

DOCUMENT NUMBER: 133:230407

TITLE: Ink-jet recording sheet using graft copolymer as binder

INVENTOR(S): Nakaya, Masaru; Nishida, Hayato; Murata, Sakae; Mutsu,

Shuichiro; Kito, Kiyoshi  
Takamatsu Yushi K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.  
CODEN: JXXXXF

DOCUMENT TYPE: Patent  
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000247020	A2	20000912	JP 1999-56363	19990304

PRIORITY APPLN. INFO.: JP 1999-56363 19990304

L11 ANSWER 34 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB Steel is subjected to a cathodic or anodic treatment in aq. solns. at pH 2-11 contg. ions such as Al, Cr, Mo, etc., coated with sols of hydrated oxides and optionally metals, coated with inorg. binders, and optionally coated with resins by a cathodic or anionic treatment in aq. solns.

Thus, steel plated with Zn-2% Co was subjected to a cathodic treatment in 0.5% aq. ammonium vanadate at pH 7.5 and coated with 5% colloidal silica.

ACCESSION NUMBER: 2000:632112 CAPLUS  
DOCUMENT NUMBER: 133:239456  
TITLE: Precoated steel plates and production methods

INVENTOR(S): Kanda, Katsumi; Fujimoto, Junichi

PATENT ASSIGNEE(S): Toyo Kohan Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
CODEN: JXXXXF

DOCUMENT TYPE: Patent  
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000248398	A2	20000912	JP 1999-51787	19990226

PRIORITY APPLN. INFO.: JP 1999-51787 19990226

L11 ANSWER 35 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB The present invention relates to a method for producing kraft cellulose that involves prepg. a highly-selective polysulfide alkali liquor by oxidizing a white alkali liquor in the presence of a new heterogeneous catalyst A, B or C. The catalyst A consists of transition metal oxides, activated carbon, and a polymeric binder. The catalyst B consists of unsupported or supported Raney Ni. The catalyst C consists of highly porous hydrophobic carbon. The wood is then cooked in the alkali liquor thus obtained, and the cellulose is sepd., rinsed and submitted to a delignification process using a polysulfide alkali liquor until a Kappa no. of 3 to 8 is reached. The method further involves a chlorine-free bleaching process, regenerating the alkali liquor and steam-stripping the volatile sulfide compds. TRS (hydrogen sulfide, Me mercaptan, di-Me sulfide, di-Me disulfide) and the .alpha.-pinene before oxidizing them in condensates, gases and gaseous effluents in the presence of a heterogeneous catalyst (D, C) until water-sol., non-toxic and non-volatile sulfates (Na2SO4), thiosulfates (Na2S2O3), and sulfonates are obtained. The catalyst D consists, like the catalyst A,

of transition metal oxides, activated carbon, and a polymeric binder. The method further involves supplying the purified condensates towards the caustic soda or cellulose rinsing. This method increases the yield of quality cellulose by 3 to 10 %, reduces the generation of volatile sulfide

compds. and .alpha.-pinene by 60 to 80 % during the cooking process, reduces more than ten times the energy consumption for eliminating the TRS and the .alpha.-pinene without discharging secondary waste such as SO2, NO2 and CO2 into the atm., and also reduces the wood, water and fuel consumption.

ACCESSION NUMBER: 2000:608973 CAPLUS

DOCUMENT NUMBER: 133:209515

TITLE: Environmentally friendly production of bleached kraft pulp

INVENTOR(S): Gorokhov, Alexandr; Yermeyeva, Irina

PATENT ASSIGNEE(S): Can.

SOURCE: PCT Int. Appl., 29 pp.  
CODEN: PIXXD2

DOCUMENT TYPE: Patent  
LANGUAGE: Russian

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000050689	A1	20000831	WO 1999-1B388	19990222

W: BR, CA, NZ, SI, US  
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRIORITY APPLN. INFO.: WO 1999-1B388 19990222

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L11 ANSWER 36 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
 AB The method comprises coating an ABS plastics substrate with a primer: (1) alkoxy silane, (2) colloidal SiO<sub>2</sub> and silane coupling agent or Ti coupling agent, (3) colloidal metal oxides and a silane coupling agent or Ti coupling agent, or (4) metal alkoxides, coating a water-sol. polymer (polyvinyl alc.) mask layer, activating with an aq. soln. of SnCl<sub>2</sub>, SnSO<sub>4</sub>, Sn fluoroborate, or TiCl<sub>2</sub>, and electroless coating. The coating has metal luster and good adherence.

ACCESSION NUMBER: 2000:529773 CAPLUS  
 DOCUMENT NUMBER: 133:138835  
 TITLE: Method for manufacture of electroless coated plastics articles  
 INVENTOR(S): Yamamoto, Toshihiro; Kimura, Shizuo  
 PATENT ASSIGNEE(S): Inoac Corp., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKOXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000212758	A2	20000802	JP 1999-9303	19990118
PRIORITY APPLN. INFO.: JP 1999-9303 19990118				

L11 ANSWER 37 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
 AB The kit comprises (A) radical-polymerizable monomers contg. acidic group, (C) photosensitizers and/or peroxides, (D) water-sol. solvents, and (E) H<sub>2</sub>O, among which (A) and/or (C) is contained in an applicator such as sponge, cotton, or brush, and the other components are packed in .gtoreq.1 container for mixing just before the use. The kit may addnl. contain (B) water-insol. or poorly water-sol. radical-polymerizable monomers contg. no acidic group, (F) amines, (G) silane coupling agents, and (H) 1,3,5-triazine-2,4-dithione derivs. The adhesives give less damage to tooth, dose not necessarily require pretreatment such as etching and primer coating, and are applied to various materials including metals, ceramics, composite resins, etc. A tooth sample was coated with a compn. contg. 4-methacryloyloxyethyl trimellitic anhydride (I), .gamma.-methacryloyloxypropyltrimethoxysilane, and Me methacrylate, air-blown, coated with a compn. contg. Me methacrylate 30, ethoxylated bisphenol A dimethacrylate, dl-camphorquinone, acetone, and H<sub>2</sub>O, further coated with I by an sponge applicator, air-blown, and then irradiated. Adhesion of composite resin to the adhesive surface was tested.

ACCESSION NUMBER: 2000:426863 CAPLUS  
 DOCUMENT NUMBER: 133:64072  
 TITLE: Dental adhesive kit  
 INVENTOR(S): Yamamoto, Takashi; Arata, Shozo; Ueki, Hideyuki; Tanaka, Harumi; Tomikawa, Tamotsu; Otsuki, Haruka  
 PATENT ASSIGNEE(S): Sun Medical Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.  
 CODEN: JKOXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000178111	A2	20000627	JP 1998-359430	19981217
PRIORITY APPLN. INFO.: JP 1998-359430 19981217				

L11 ANSWER 38 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
 AB Title metal sheets, useful for photocopiers or chassis of household appliances, are manufrd. by immersing metal sheets in aq. solns. contg. colloidal SiO<sub>2</sub>, lubricant powders, and silane coupling agents, and water-sol. polyurethanes with pencil hardness H-6H, tensile strength 330-590 g/cm<sup>2</sup>, and elongation 180-450% and drying to form polymer layers. Thus, a steel sheet was plated with a Co-Zn alloy, chromated, and immersed in a soln. contg. polyurethane, SiO<sub>2</sub>, PTFE, chromic anhydride, and silane to give a test piece showing good perspiration resistance and high adhesion.

ACCESSION NUMBER: 2000:120718 CAPLUS  
 DOCUMENT NUMBER: 132:167752  
 TITLE: Polyurethane-coated metal sheets with good processability and high corrosion and scratch resistance and their manufacture  
 INVENTOR(S): Yoshikawa, Masenori; Fujimoto, Junichi; Komai, Masao; Wshimura, Takao  
 PATENT ASSIGNEE(S): Toyo Kohan Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKOXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000032485	A2	20000222	JP 1999-153467	19990601
PRIORITY APPLN. INFO.: JP 1998-167789 19980602				

L11 ANSWER 39 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
 AB Colored polymer gel particles, useful for inks, toners, water-absorbing materials, coloring materials, etc., are manufrd. by water-in-oil reverse-phase suspension polymn. of water-sol. ethylenically unsatd. monomers in a reactor having mixing blades and inner walls with water-repellent surfaces in the presence of crosslinking agents and hydrophilic pigments. Thus, 5.0 g acrylic acid was neutralized with aq. NaOH (neutralization degree 74%), mixed with 0.005 g N,N'-methylenebisacrylamide and 33.33 g CAB-O-JET 300 (aq. soln. contg. 15% hydrophilized carbon black), suspension-polymd. in a glass flask having stainless steel mixing blades in the presence of ammonium persulfate, N,N,N',N'-tetramethylethylenediamine, and cyclohexane, and neutralized with aq. NaOH to give a colored polymer gel particles (av. size 500 .mu.m) showing water absorption .apprx.700 g/g.

ACCESSION NUMBER: 2000:105209 CAPLUS  
 DOCUMENT NUMBER: 132:137850  
 TITLE: Colored polymer gel particles and their manufacture by suspension polymerization  
 INVENTOR(S): Komura, Akimasa; Akashi, Ryojiro; Uematsu, Takashi  
 PATENT ASSIGNEE(S): Fuji Xerox Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.  
 CODEN: JKOXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000044611	A2	20000215	JP 1998-211413	19980727
PRIORITY APPLN. INFO.: JP 1998-211413 19980727				

L11 ANSWER 40 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB The films are made of polyesters contg. Ge (from polymn. catalysts) 15-45 ppm and P 15-45 ppm and have fine protrusions with height 10-50 nm 3.0 times. 106-9.0 times. 107/mm2 on one side whereupon ferromagnetic metal thin film layers are formed for making magnetic recording tapes. The tapes are esp. suitable for digital video cassette (DVC) tapes and data storage tapes. Thus, poly(ethylene terephthalate) (PET) prep. in the presence of GeO2 and with Ge and P contents 30 ppm, resp., was employed. PET free from inert particles and PET contg. 0.2% Al silicate were coextruded at film thickness ratio 5:1, cast, sheeted, drawn in longitudinal direction, coated on the Al silicate-contg. side with an aq. soln. contg. Me cellulose, a water-sol. polyester, aminoethylsilane, and ultrafine SiO2, drawn in transverse direction, and processed to give a base film. On the coating, Co oxide thin film was formed by vapor deposition, diamond-like carbon film was formed by sputtering, and a F-contg. fatty-ester-type lubricant was topcoated. A back coating was formed, then the tape was made into slits to give a DVC video tape, LP mode.

ACCESSION NUMBER: 2000:43199 CAPLUS  
DOCUMENT NUMBER: 132:79587  
TITLE: Polyester films and magnetic recording tapes thereof  
INVENTOR(S): Ono, Masaaki; Okamoto, Katsuya; Hatano, Hiroshi  
PATENT ASSIGNEE(S): Toray Industries, Inc., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
CODEN: JKXKXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000015695	A2	20000118	JP 1998-191689	19980707
PRIORITY APPLN. INFO.:			JP 1998-191689	19980707

L11 ANSWER 42 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB Method and compns. provide the redn. of the corrosion rate of already corroding steel reinforcements embedded in a hardened concrete structure exposed to aggressive environments as well as the corrosion inhibition of uncorroded steel reinforcements. The corrosion-inhibiting compns. are based on aq. sol. and/or emulsion of: (a) .gtoreq.1 amino- and/or hydroxyalkylamino compd. (e.g., 2-Aminoethanol and N-Ethylcyclohexylamine), which are partially or completely neutralized with .gtoreq.1 inorg. acid and/or derivs. thereof (e.g., KH2PO4) and/or aliph. carboxylic- and/or arom. carboxylic acid (e.g., octanoic acid), (b) .gtoreq.1 surfactant (e.g., N-Lauroylsarcosine, sodium salt), and (c) optionally, .gtoreq.1 water-based or water-thinnable repellent agent selected from the group of organosilicones. These compns. are applied by impregnating the reinforced concrete structures. The av. corrosion rates of the reinforcing steel embedded in carbonated concrete were 31-42% based on the corresponding initial value.

ACCESSION NUMBER: 1999:736260 CAPLUS  
DOCUMENT NUMBER: 131:340807  
TITLE: Method for rehabilitation and corrosion protection of reinforcing steel embedded in hardened concrete structures using surface-applied corrosion-inhibiting compositions  
INVENTOR(S): Marazzani, Beat; Mader, Urs; Burge, Theodor A.  
PATENT ASSIGNEE(S): Sika AG, Vorm. Kaspar Winkler and Co., Switz.  
SOURCE: Eur. Pat. Appl., 20 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 957071	A1	19991117	EP 1998-108660	19980513
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 2002066889	A1	20020606	US 1999-309290	19990511
US 6402990	B1	20020611	US 2002-135762	20020501
US 2003034479	A1	20030220	EP 1998-108660	A 19980513
PRIORITY APPLN. INFO.:			US 1999-309290	A3 19990511
OTHER SOURCE(S):			MARPAT 131:340807	
REFERENCE COUNT: 3			THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE	

FORMAT

L11 ANSWER 41 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB The sheet comprises a paper support and a porous transparent layer having 30-500 surface cracks (per 1 mm2) of width 5-30 .mu.m and length 30-200 .mu.m. Paper support is coated with a soln. contg. a water-sol. resin and an inorg. fine-grain particle, for formation of a porous transparent layer; heated for drying to make the water content to 30-50%; coated with a gelling agent; and pressed with a mirror roll for a glazed finish. Smooth-surfaced clear images having water resistance are formed.

ACCESSION NUMBER: 1999:801466 CAPLUS  
DOCUMENT NUMBER: 132:42856  
TITLE: Ink-jet recording sheets and their manufacture  
INVENTOR(S): Fuchisawa, Tetsuo; Koike, Kazuyuki  
PATENT ASSIGNEE(S): Fujii Photo Film Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.  
CODEN: JKXKXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11348416	A2	19991221	JP 1998-159735	19980608
PRIORITY APPLN. INFO.:			JP 1998-159735	19980608

L11 ANSWER 43 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB H2O-base binders for use in brazing in producing brazed Al products such as radiators for engines and condensers for car air conditioners are obtained by sapon. methacrylate polymers having an acid value of 20-80 and a glass transition temp. of -30 to 60.degree. with compds. showing cationic property in aq. solns. The methacrylate polymers contain monomer(s) CH2=C(CH3)COOR (R=Cl-12 alkyl) and monomer(s) of (meth)acrylic acid, maleic acid, and itaconic acid. Brazing compns. are obtained by mixing the binders 1-50, fluoroaluminate fluxes 30-70, Si system brazes 10-40, and water-sol. and volatile alcs. having a flash point of .gtoreq.30.degree. 1-50 wt. parts and dilg. with water. The use of binders obtained by adding polyoxysilane or polyoxazoline as a minor ingredient to the methacrylate polymer as the main ingredient enables the brazing compn. to have improved ordinary-temp. tight adhesion to Al materials and to be prevented from suffering a viscosity increase during application or storage. An Al material is coated with the brazing compn., assembled with other Al material, and brazed by heating.

ACCESSION NUMBER: 1999:672669 CAPLUS  
DOCUMENT NUMBER: 131:302258  
TITLE: Water-base binder for brazing aluminum materials, brazing compositions, and method of brazing aluminum materials with the compositions  
INVENTOR(S): Tanimaka, Ichiro; Shibata, Hikaru; Hasegawa, Yoshiharu; Teshima, Shoel  
PATENT ASSIGNEE(S): Harima Chemicals, Inc., Japan; Denso Corporation  
SOURCE: PCT Int. Appl., 37 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9952672	A1	19991021	WO 1998-JP5758	19981218
W: US				
RW: DE, GB				
EP 1029630	A1	20000823	EP 1998-961431	19981218
R: DE, GB				
JP 2000000687	A2	20000107	JP 1999-81494	19990325
JP 2000153393	A2	20000606	JP 1999-253879	19990908
US 6234381	B1	20010522	US 1999-423997	19991117
PRIORITY APPLN. INFO.:			JP 1998-102685	A 19980414
			JP 1998-261493	A 19980916
			WO 1998-JP5758	W 19981218
REFERENCE COUNT: 2			THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE	

FORMAT

L11 ANSWER 44 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
AB A review with 54 refs. The recent achievements in syntheses and characterizations of fluoroalkyl end-capped polymers and their interface adsorption properties were introduced. The fluoroalkyl end-groups could be introduced into polymer chains in living or free-radical polymn. by the initiators or terminators contg. fluoroalkyl groups. The living polymn. could make the fluoroalkyl end-capped polystyrene. Free radical method could produce the fluoroalkyl end-capped polymers of the monomers such as acrylic acid and vinylsilane etc. The fluoroalkyl end-capped polymer such as perfluoroalkyl polyethylene oxide could be prepd. by chem. modification of end groups in polymers. Generally, fluoroalkyl-capped polymers are highly surface active. The end-capped polymers were concd. at the interface, i.e., the segregation occurred in the soln. or melt of polymer blends contg. the end-capped and ordinary polymer. For water-sol. fluoroalkyl end-capped polymer, the surface tension of their aq. soln. at crit. micellar concn. is as low as .apprx.15 mN/m. In the adsorbed layer at the air-water interface, the brushed structures are formed because of the special effect of the fluoroalkyl groups at the chain.  
ACCESSION NUMBER: 1999:469768 CAPLUS  
DOCUMENT NUMBER: 131:229340  
TITLE: Syntheses of fluoroalkyl end-capped polymers and their adsorption properties at interface  
AUTHOR(S): Luo, Xiangdong; Li, Ruixia; Wu, Dacheng  
CORPORATE SOURCE: Text. Coll., Sichuan Univ., Chengdu, 610065, Peop. Rep. China  
SOURCE: Gongneng Gaofenzi Xuebao (1999), 12(2), 225-229  
CODEN: GGXUEH; ISSN: 1004-9843  
PUBLISHER: Gongneng Gaofenzi Xuebao Bianjibu  
DOCUMENT TYPE: Journal: General Review  
LANGUAGE: Chinese

L11 ANSWER 45 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
AB The compds. comprise a carboxylic acid group and/or a .beta.-hydroxyalkyl amide group. The curable compns. contain the compds. or their salts and std. additives selected from waterproofing agents, e.g., oil, mineral oil, silicone oil (reactive or nonreactive), fluoroarben compds. or stearylamine, hydrophilic surfactants selected from polyethyleneglycol, silanes or titanates, and water-contg. agents selected from Mg(OH)2 and Al(OH)3. More specifically, the compds. may comprise a carbonyl compd., e.g., an anhydride, esp. a cyclic anhydride or activated ester, and an amine, e.g., alkanolamine, esp. secondary .beta.-alkylamine to provide a desired reaction rate. The compds. are manufd. by mixing under reactive conditions a carbonyl compd. as above with an amine as above. Thus, under N, succinic anhydride 300 was reacted in the presence of water 100 with diethanolamine 315 g at 70 degrees. for 2 h to give a clear, low-viscosity soln. The bonding strength of the binder to glass was 11, vs. 5-6 N/mm2 for a std. phenolic binder.  
ACCESSION NUMBER: 1999:464245 CAPLUS  
DOCUMENT NUMBER: 131:105654  
TITLE: Compounds and curable compositions for use as binder for mineral fibers such as glass fibers and rock wool,  
INVENTOR(S): manufacture and use of the water-soluble binders, and mineral fibers spray-coated with the binders  
PATENT ASSIGNEE(S): Stanssens, Dirk Armand Wim; Husemoen, Thor; Hansen, Erling Lennart  
SOURCE: Tidis B.V., Neth.  
PCT Int. Appl., 46 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9936368	A1	19990722	WO 1999-NL29	19990115
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, GR, GU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LS, LT, LU, LV, MD, MG, MK, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
NL 1008041	C2	19990719	NL 1998-1008041	19980116
CA 2318273	A1	19990722	CA 1998-2318273	19990115
AU 9920780	A1	19990802	AU 1999-20780	19990115
AU 762182	B2	20030619		
EP 1047645	A1	20001102	EP 1999-901243	19990115
R: AT, BE, DE, DK, ES, FR, GB, IT, NL, SE, PT, SI, LT, LV, FI, RO				
JP 2002509123	T2	20020326	JP 2000-540087	19990115
RU 2209203	C2	20030727	RU 2000-121629	19990115
PRIORITY APPLN. INFO.:			NL 1998-1008041 A	19980116
			WO 1999-NL29 W	19990115
OTHER SOURCE(S):			MARPAT 131:105654	
REFERENCE COUNT:			8	THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT				

L11 ANSWER 45 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)

L11 ANSWER 46 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
AB Title compns., with good storage stability, comprise water and/or water-sol. solvents, inorg. colloidal sols, and vinyl resins prepd. from hydrolyzable silyl-contg. vinyl compd. (oligomers), amineimido vinyl compds., OH-contg. vinyl compds., ionic vinyl compds., and C1-5 alkyl (meth)acrylates. A compn. comprising 3:1 water/EtOH blend 95, colloidal SiO2 3, and acrylic acid-Bu acrylate-1,1-dimethyl-1-(2-hydroxypropyl)amine methacrylimide-2-hydroxyethyl acrylate-Me methacrylate-gamma-methacryloxypropyltrimethoxysilane copolymer NH3 salt 2 parts showed good storage stability at 50.degree. for 1 mo and was spread on a various plastic film or glass plate to form transparent thin film with good adhesion and fogging prevention over 4 yr.  
ACCESSION NUMBER: 1999:451071 CAPLUS  
DOCUMENT NUMBER: 131:117549  
TITLE: Hydrolyzable silyl-containing vinyl resin-based antifogging aqueous compositions  
INVENTOR(S): Yamagishi, Hiroshi; Makimura, Akira; Iwase, Keiko; Momohira, Satoru  
PATENT ASSIGNEE(S): Mitsubishi Kagaku MKV K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
CODEN: JKXKAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11193375	A2	19990721	JP 1997-320995	19971121
PRIORITY APPLN. INFO.:			JP 1997-295336	19971028

L11 ANSWER 47 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB Coating compns. contain water-sol. or water-dispersible alkoxyasilane condensates, .gtoreq.1 dispersion of fluoropolymers and acrylic polymers having hydrolyzable silyl groups, org. solvents, and water. Thus, a clear contained an aq. dispersion (48.6% solids) of chlorotrifluoroethylene-undecylenic acid-VeoVa 9-vinyl butyrate-vinyl pivalate-vinyltrimethoxysilane copolymer 34, a thickener 0.1, X-51-714B (a methyltrimethoxysilane condensate) 54, a .gamma.-glycidoxopropyltriethoxysilane condensate 10, and Butyl Carbitol acetate 2 parts.  
 ACCESSION NUMBER: 1999:409343 CAPLUS  
 DOCUMENT NUMBER: 131:60158  
 TITLE: Inorganic-organic composite aqueous coating compositions  
 INVENTOR(S): Kito, Koichi; Saegusa, Kazumasa  
 PATENT ASSIGNEE(S): Dainippon Toyo Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.  
 CODEN: JKKXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11172200	A2	19990629	JP 1997-342688	19971212
PRIORITY APPLN. INFO.:			JP 1997-342688	19971212

L11 ANSWER 48 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB Title dispersion with good storage stability is prepd. by emulsion polymn. of monomer mixts. comprising fluoroolefins, ethylenically unsatd. monomers contg. hydrolyzable silyl groups, and vinyl carboxylate esters or acrylate monomers contg. (substituted) cyclohexane rings in aq. media in the presence of water-sol. cyclic azoamides as polymn. initiators. Thus, an aq. mixt. of vinyl versate (vinyl ester of C9 branched fatty acid) 82, vinyl versate (vinyl ester of C10 branched fatty acid) 132, vinyl pivalate 15, vinyltriethoxysilane 23.5, 2-acrylamide-2-methylpropanesulfonic acid 5.3, chlorotrifluoroethylene 289, and 2,2'-azobis[2-(5-methyl-2-imidazoline-2-yl)propane]dihydrochloride (VA 041) 5.0 g was emulsion polymd. to give a 51%-solids aq. copolymer dispersion showing no pptn. at 50.degree. for 60 days. A coating film prepd. from the dispersion showed 60.degree.-gloss 75%, good stain resistance, and gloss retention 91% after 2 wk in H2O at 40.degree..  
 ACCESSION NUMBER: 1999:394647 CAPLUS  
 DOCUMENT NUMBER: 131:46124  
 TITLE: Preparation of aqueous dispersion of fluorine-containing copolymers for stain-, weather-, and water-resistant coatings  
 INVENTOR(S): Marumoto, Eisuo; Tida, Akito; Inukai, Hiroshi  
 PATENT ASSIGNEE(S): Toa Gosei Chemical Industry Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKKXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11166007	A2	19990622	JP 1997-348739	19971204
PRIORITY APPLN. INFO.:			JP 1997-348739	19971204

L11 ANSWER 49 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB The films contain antifogging coatings mainly contg. inorg. colloidal sols, water and/or water-sol. solvents, and polymers of (a) hydrolyzable silyl group-contg. vinyl monomers and/or oligomers, (b) vinyl monomers bearing amine-imide groups, (c) OH-contg. vinyl monomers, (d) vinyl monomers with ionic groups or groups capable of forming ionic groups, and (e) C1-5 alkyl (meth)acrylates on .gtoreq.1 side of the films. Thus, a tetrafluoroethylene-ethylene-perfluorobutylethylene copolymer film was coated with a soln. of a compn. of 2 parts (solids) 15:3:10:7:40:25 .gamma.-methacryloxypropyltrimethoxysilane -1,1-dimethyl-1-(2-hydroxypropyl)amine methacrylimide-2-hydroxyethyl acrylate-acrylic acid-Me methacrylate-Bu acrylate copolymer aq. emulsion and 3 parts colloidal silica in 3:1 mixt. of water and EtOH and dried at 90.degree. for 1 min to give a coated film. Then, the film was subjected to outdoor exposure (as greenhouse) for 4 yr to show retention of the initial transparency and antifogging effect.  
 ACCESSION NUMBER: 1999:345581 CAPLUS  
 DOCUMENT NUMBER: 131:6669  
 TITLE: Agricultural fluoropolymer films having antifogging coatings  
 INVENTOR(S): Yamagishi, Hiroshi; Makimura, Akira; Iwase, Keiko  
 PATENT ASSIGNEE(S): Mitsubishi Kagaku IRI K. K., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.  
 CODEN: JKKXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11146732	A2	19990602	JP 1997-314907	19971117
PRIORITY APPLN. INFO.:			JP 1997-314907	19971117

L11 ANSWER 50 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB An ink-jet printing ink compn. comprises a vehicle, a colorant, .gtoreq.1 core-shell polymeric binders to increase smear-fastness of the compn., and a magnetic additive, wherein the core-shell polymeric binder has a formula given by (AmAnCpDqEr)x, where A and B are hydrophobic components in which A exhibits a glass transition temp. (Tg) between .apprx.-150.degree. to 25.degree. and B exhibits Tg > 25.degree., C is a hydrophilic component comprising a water-sol. monomer, D is a UV absorber, E is a moiety having .gtoreq.1 highly polar functional groups, m = 5-95 wt%, n = 5-95 wt%, p = 0-60 wt%, q = 0-50 wt%, r = 0-30 wt%, m + n + p + q + r = 100 wt%, and x = 1-100,000; wherein the polymer has either hydrophobic and hydrophilic moieties or has only hydrophobic moieties and is assocd. with the surfactant to form a polymer-surfactant system which is capable of forming a film from water, which, upon dehydration, is essentially resistant to water, the polymer has a Tg between .apprx.-10.degree. to 110.degree.; wherein the magnetic additive consists essentially of .gtoreq.1 inorg. magnetic compd. contg. .gtoreq.1 iron, cobalt, and nickel cations, or .gtoreq.1 org. magnetic complex contg. .gtoreq.1 iron, cobalt, and nickel cations or .gtoreq.1 org. complex or charge transfer complex exhibiting magnetic properties. Thus a core-shell polymer with hexyl acrylate, Me methacrylate, vinylpyrrolidone and UV stabilizer in the ratio of 10, 30, 59, and 1% by wt. was prepd., showing av. particle size of 250 nm and tg of 65.degree..  
 ACCESSION NUMBER: 1999:311268 CAPLUS  
 DOCUMENT NUMBER: 130:339499  
 TITLE: Ink-jet ink compositions having magnetic properties  
 INVENTOR(S): Nguyen, Khue C.; Ganapathippan, Sivapackia  
 PATENT ASSIGNEE(S): Hewlett-Packard Company, USA  
 SOURCE: PCT Int. Appl., 66 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 8  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9923181	A1	19990514	WO 1998-US23079	19981029
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, BG, CZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
US 5990202	A	19991123	US 1997-998164	19971224
US 6057384	A	20000502	US 1998-120270	19980721
AU 9912916	A1	19990524	AU 1999-12916	19981029
EP 1027391	A1	20000816	EP 1998-956377	19981029
R:	DE, FR, GB, IT			
JP 2001521976	T2	20011113	JP 2000-519046	19981029
PRIORITY APPLN. INFO.:			US 1997-962496	A 19971031
			US 1997-998164	A 19971224



L11 ANSWER 50 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)  
US 1998-120046 A 19980721  
US 1998-120270 A 19980721  
WO 1998-US23079 W 19981029  
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS  
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L11 ANSWER 51 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
AB Title compns. are prepd. by mixing crosslinkable polymers with wt.-av.  
mol. wt. of 5,000-200,000, pigments, and org. solvents to form enamels,  
dispersing in aq. media, optionally mixing with catalysts and  
crosslinkers  
to form aq. dispersions contg. crosslinked particles with av. diam. of  
0.01-3 .mu.m, and mixing with aq. resins. Prepp. 5 different colored  
enamels from various pigments, org. solvents, and Bu acrylate-iso-Bu  
methacrylate-2-hydroxyethyl acrylate-styrene copolymer, sep. dispersing  
the enamels with an aq. dispersing medium, and sep. mixing with HMDI gave  
5 different colored dispersions, which were mixed at a desired ratio with  
an aq. emulsion of adipic acid dihydrazide and COOH-contg. acrylic  
polymer, sprayed on a primed slate panel and dried to form a panel with  
good discoloration prevention after JIS A 6909 test and whitening  
resistance after 1 wk in water.  
ACCESSION NUMBER: 1999:271143 CAPLUS  
DOCUMENT NUMBER: 130:339442  
TITLE: Multicolored coating compositions with whitening  
resistance and finishing process therewith  
INVENTOR(S): Sawada, Norimasa; Hirata, Nobuto; Miyata, Naoki  
PATENT ASSIGNEE(S): Kansai Paint Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.  
CODEN: JKOXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

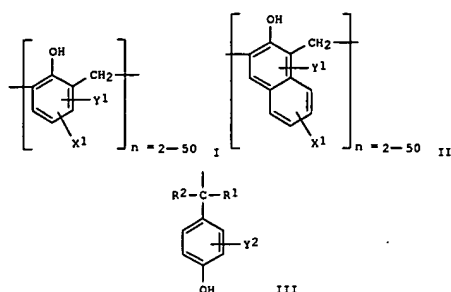
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11116860	A2	19990427	JP 1997-287515	19971021
PRIORITY APPLN. INFO.:			JP 1997-287515	19971021

L11 ANSWER 52 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
AB The compns. are manufd. by adding 1st resin particles and org. solvents  
or  
H2O to emulsions contg. 2nd resin particles, emulsifiers, and  
water-sol. or -swellable resins. Thus, vinyl butyrate  
40.2, cyclohexyl vinyl ether 5, Veova 9 298.8, undecylenic acid 0.73, and  
chlorotrifluoroethylene 230.3 parts were polymd. in H2O to give  
fluoropolymer emulsion, 100 parts (as solids) of which was mixed  
with 1 part Adekanol UH 420 (polyether thickener) followed by an EtOH  
paste of 300 parts low-mol.-wt. poly(tetrafluoroethylene) to give an aq.  
coating. An Al substrate was sprayed with the coating to give a test  
piece showing initial water contact angle 162.degree., uniform surface  
appearance, and no change in water repellency after a 2000-h weathering  
test.  
ACCESSION NUMBER: 1999:267540 CAPLUS  
DOCUMENT NUMBER: 130:339480  
TITLE: Weather- and water-resistant aqueous coating  
compositions and their manufacture  
INVENTOR(S): Sugimoto, Hiromi; Kobayashi, Satoru; Maeda, Kazuhiko;  
Tatsumi, Kentaro  
PATENT ASSIGNEE(S): Central Glass Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
CODEN: JKOXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11116849	A2	19990427	JP 1997-280837	19971014
PRIORITY APPLN. INFO.:			JP 1997-280837	19971014

L11 ANSWER 53 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
AB Graft copolymers are manufd. by grafting CH2:CR1CO2(C2H4O)PR2 (I; R1 = H,  
Me; R2 = Cl-6 alkyl; p = 1-10) onto copolymers obtained from  
Me3SiO(Me2SiO)1[MeSi(C3H6(OC2H4)a(OR)BOH)O]m[MeSi(C2H4Ph)O]nSiMe3 (II; R  
= CHMeCH2, CH2CHMe; 1, m, n = pos. integer; a = 1-20; b = 0-20) and compds.  
having reactive double bond and groups reactive with OH of II. The graft  
copolymers are useful for antifouling coatings slightly hydrolyzed in  
seawater to form fresh surfaces. Thus, Me methacrylate 50, Bu acrylate  
10, and FA 400M [I (R1 = R2 = Me, p = 9)] 30 parts were grafted onto 10  
parts copolymer [prepd. from 300 parts 7 264-36 (polyalkylene  
ether silicone copolymer) and 0.42 part maleic anhydride]. A glass plate  
was coated with a xylene soln. of the graft polymer and soaked into  
flowing seawater for 6 mo to result in 2.0, 5.2, and 10.1% wt. loss after  
1, 3, and 6 mo, resp.  
ACCESSION NUMBER: 1999:250320 CAPLUS  
DOCUMENT NUMBER: 130:326403  
TITLE: Acrylic polyoxyalkylene-polysiloxane graft  
copolymers,  
their manufacture, slightly water-  
soluble resin compositions, and antifouling  
coatings  
INVENTOR(S): Murakami, Makoto; Mamiya, Tsutomu  
PATENT ASSIGNEE(S): Hitachi Chemical Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
CODEN: JKOXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11106450	A2	19990420	JP 1997-267411	19970930
PRIORITY APPLN. INFO.:			JP 1997-267411	19970930



AB A surface treatment compn. for metallic materials comprises: (A) a cationic ingredient comprising bivalent or higher ions of a metal selected among elements including manganese; (B) an acid ingredient comprising at least one member selected among (1) fluorinated acids contg. .gtoreq.4 F atoms and an element selected among elements including titanium, (2) phosphoric acid, and (3) acetic acid; (C) a silane coupling agent having at least one reactive functional group selected among functional groups including amino groups each contg. active hydrogen; and (D) a water-sol. polymer ingredient represented by general formula (I) [X1 = H, OH, C1-5 alkyl, C1-10 hydroxyalkyl, C6-12 aryl, benzyl, benzal, or (II) { X2 defined the same as X1, or (III) { R1 or R2 = H, OH, C1-5 alkyl, C1-10 hydroxyalkyl; Y1 or Y2 = CH2-N(R3)R4 or CH2-N(R7)(R5)R6 with R1 (i=5, 6, 7) = C1-5 alkyl, C1-10 hydroxyalkyl.

ACCESSION NUMBER: 1999:244789 CAPLUS  
DOCUMENT NUMBER: 130:298064  
TITLE: Surface treatment composition for metallic material and method for treatment  
INVENTOR(S): Nagashima, Yasuhiko; Hayashi, Hiroki  
PATENT ASSIGNEE(S): Nihon Parkerizing Co., Ltd., Japan  
SOURCE: PCT Int. Appl., 33 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9918256	A1	19990415	WO 1998-JP4458	19981002
W: CA, CN, KR, US RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,				

AB The compns. contain F-contg. Si alkoxides which segregate in surface. Coatings formed from the compns., the F-contg. Si alkoxides or their reaction products being segregated in .ltoreq.30μ thickness region from the surface, are also claimed. Thus, acrylic acid 9, 2-hydroxyethyl acrylate (I) 10, 2-hydroxyethyl methacrylate (II) 5, styrene (III) 10, 2-ethylhexyl acrylate (IV) 10, Bu acrylate (V) 20, and Me methacrylate (VI) 36 parts were polymd. in Me2CHOH/Bu cellosolve in the presence of AIBN to give a copolymer, 46.7 parts of which was mixed with another copolymer (prepd. from I 10, II 5, III 10, IV 10, V 20, VI 40, and .gamma.-methacryloxypropyltrimethoxysilane 5 parts) 23.3, melamine resin (MX 40) 30, (perfluoroalkylethyl)trialkoxysilane (KBM 7103) 0.01, and dimethylaminoethanol 2.88 parts, and inversion-emulsified with H2O to give a compn. An Al sheet was electrodeposited with the compn. dild. with H2O and then baked to give a test piece showing good resistance to scratching, blocking, H2SO4, HCl, and NaOH.

ACCESSION NUMBER: 1999:238642 CAPLUS  
DOCUMENT NUMBER: 130:313252  
TITLE: Water-soluble acrylic copolymer-amino resin compositions for electrodeposition coatings with improved resistance to scratching, chemicals, and blocking  
INVENTOR(S): Tokui, Toshiyuki; Takamagari, Kenji; Yoshimura, Masanobu  
PATENT ASSIGNEE(S): Honey Kasei K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
CODEN: JKKXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11100532	A2	19990413	JP 1997-279330	19970929
PRIORITY APPLN. INFO.: JP 1997-279330 19970929				

PT, SE  
JP 11106945 A2 19990420 JP 1997-287763 19971003  
EP 949353 A1 19991013 EP 1998-945586 19981002  
R: BE, DE, FR, GB, IT  
TW 408194 B 20001011 TW 1998-87116444 19981002  
US 6180177 B1 20010130 US 1999-319720 19990610  
PRIORITY APPLN. INFO.: JP 1997-287763 A 19971003  
WO 1998-JP4458 W 19981002  
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

AB The sizing agents comprise a water-sol. or dispersible bisphenol A epoxy resin, bisphenol F epoxy resin, bisphenol AD epoxy resin, phenolic novolak epoxy resin, cresol novolak epoxy resin, aliph. epoxy resin, or their hydrogenated or ether-modified product and optionally 1-20% (solids) polyurethanes. Sizing glass fibers with a compn. contg. Epikote Al54 aq. dispersion 3 (as solids), Epikote 1001 aq. dispersion 1, .gamma.-aminopropyltriethoxysilane 0.5, polyurethane aq. dispersion 1, tetraethylenepentamine-stearic acid condensate 0.1, and water 94.4%, cutting to 3-mm fiber strands, kneading (30 parts) with 70 parts poly(L-lactic acid) and injection molding gave test pieces with tensile strength 1370 kg/cm2 and Izod impact strength 11.2 kg-cm/cm2.

ACCESSION NUMBER: 1999:201839 CAPLUS  
DOCUMENT NUMBER: 130:268270  
TITLE: Sizing agents for glass fibers used as reinforcements for biodegradable resins  
INVENTOR(S): Kajita, Akimasa  
PATENT ASSIGNEE(S): Nitto Boseki Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.  
CODEN: JKKXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11079793	A2	19990323	JP 1997-245986	19970828
PRIORITY APPLN. INFO.: JP 1997-245986 19970828				

L11 ANSWER 57 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB Title films are obtained by forming coating films from antifogging agent compns. contg. (a) hydrolyzable silyl group-containing vinyl copolymers, (b) inorg. colloid sols (solid wt. ratio of (b)/(a) = 0.5-9), and (c) water and/or water-sol. solvents on one or both sides of fluoropolymer films. Thus, a 46.3:0.7:53 (mol) ethylene-perfluorobutylethylene-tetrafluoroethylene copolymer film was treated with corona discharge, coated with a compn. contg. a polymer soln. (nonvolatile matter 60%; prepd. from Me methacrylate 120, Bu acrylate 75, 2-hydroxyethyl methacrylate 30, N,N-dimethylaminoethyl methacrylate 30, and .gamma.-methacryloxypropyltrimethoxysilane 45 parts) 2, colloidal silica (av. particle size 40 nm) 3, Epilcon 860 (epoxy compd.) 0.1, and tetraethylenepentamine 0.05 part, and dried to give a coated film with good transparency and long-lasting antifogging property.

ACCESSION NUMBER: 1999:97326 CAPLUS  
 DOCUMENT NUMBER: 130:197678  
 TITLE: Agricultural fluoropolymer films with good transparency and long-lasting antifogging property  
 INVENTOR(S): Yamakishi, Hiroshi; Makimura, Akira; Iwase, Keiko; Momodaira, Satoru  
 PATENT ASSIGNEE(S): Mitaubishi Kagaku MKV K. K., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKOXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11034250	A2	19990209	JP 1997-198279	19970724
PRIORITY APPLN. INFO.:			JP 1997-198279	19970724

L11 ANSWER 58 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB The sol-gel reaction of tetramethoxysilane (TMOS) or tetraethoxysilane (TEOS) with a variety of carboxylic acids leads to a solid glass within a few minutes to a few days. The as-prepd. silicate glasses show no photoluminescence (PL) but a simple heat treatment in air between 200 deg C and 500 deg C produces a material that displays white PL between 450-600nm. The external PL quantum yield, measured under 365-nm excitation, ranges from 0.20 to 0.45 and the PL lifetime is < 10 ns. The chromophore is proposed to be a silicate-trapped polyarom. species. A second class of luminescent materials was synthesized by the reaction of various carboxylic acids with amino-functional trialkoxysilanes such as 3-aminopropyltriethoxysilane (APTES). The transparent yellow-orange polysiloxane that forms from the reaction of formic acid and APTES is highly luminescent (F=0.3-0.4) and is water sol. The chromophore in 3-aminopropylsiloxanes is proposed to be a cyclic silyl imide species. Model compd. studies and MO calcs. aimed at obtaining a better understanding of the nature of the chromophore in these materials will be discussed.

ACCESSION NUMBER: 1999:93099 CAPLUS  
 TITLE: Metal activator-free silicate phosphors  
 AUTHOR(S): Sailor, Michael J.; Green, Will H.; Ansell, Michael A.  
 CORPORATE SOURCE: Department of Chemistry and Biochemistry, University of California, La Jolla, CA, 92093, USA  
 SOURCE: Book of Abstracts, 217th ACS National Meeting, Anaheim, Calif., March 21-25 (1999), PHYS-096. American Chemical Society: Washington, D. C.  
 CODEN: 67GHA6  
 DOCUMENT TYPE: Conference: Meeting Abstract  
 LANGUAGE: English

L11 ANSWER 59 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB Fluorescence immunoassay methods (for detn. of hormones, drugs, antigens, antibodies, etc.) are provided which use fluorescent dyes which are free of aggregation and serum binding. Such immunoassay methods are thus particularly useful for the assay of biol. fluids, such as serum, plasma, whole blood and urine. The carboxylic acid groups of a caged dicarboxy silicon phthalocyanine dye (prepn. given) were converted to the imidazole by reaction with carbonyl diimidazole. The dye was then reacted with goat anti-human IgG. The labeled antibody was used in a sandwich immunoassay for rubella antibody.

ACCESSION NUMBER: 1998:788690 CAPLUS  
 DOCUMENT NUMBER: 130:49512  
 TITLE: Fluorescence immunoassays using fluorescent dyes free of aggregation and serum binding  
 INVENTOR(S): Devlin, Robert F.; Dandliker, Walter B.; Arrhenius, Peter O. G.  
 PATENT ASSIGNEE(S): Diatron Corporation, USA  
 SOURCE: U.S., 57 pp., Cont.-in-part of U.S. Ser. No. 856,176, abandoned.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 9  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5846703	A	19981208	US 1993-35633	19930323
US 5403928	A	19950404	US 1991-701449	19910515
ES 2163393	T3	20020201	ES 1991-912121	19910515
WO 9319366	A1	19930930	WO 1993-US2470	19930323

W: CA, FI, JP, NO  
 RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

PRIORITY APPLN. INFO.:

US 1990-523601	B2	19900515
US 1990-524212	B2	19900515
US 1991-701449	A2	19910515
US 1991-701465	B2	19910515
US 1992-856176	B2	19920323
WO 1993-US2470	A	19930323

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L11 ANSWER 60 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB Title sheets have 3-dimensional network structures of regenerated pulp-contg. pulp and biodegradable tackifiers and contain composites of water-sol. polymers and M(OR)<sub>n</sub>, PmM(OR)<sub>n</sub>-m, and/or their polymers (M = metal; R = alkyl; P = alkyl, fluoroalkyl, substituent contg. .gtoreq.1 functional group such as epoxy; 0 < m < n) in one side. The sheets are useful for buffer materials for packaging. Thus, regenerated pulp, Na alginate, Na dodecylsulfate, and CaCl<sub>2</sub> were extruded and impregnated with an aq. soln. contg. Si(OR)<sub>4</sub> and poly(vinyl alc.) to give a cellular sheet showing good oil and water resistance.

ACCESSION NUMBER: 1998:758693 CAPLUS  
 DOCUMENT NUMBER: 129:344303  
 TITLE: Biodegradable pulp cellular sheets with good oil and water resistance  
 INVENTOR(S): Sakairi, Koji; Oohata, Koichi  
 PATENT ASSIGNEE(S): Toppan Printing Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKOXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10310659	A2	19981124	JP 1997-121259	19970512
PRIORITY APPLN. INFO.:			JP 1997-121259	19970512
OTHER SOURCE(S):			MARPAT 129:344303	

L11 ANSWER 61 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
AB Title compns. contain acrylic resins, aminoplasts, and fluoro  
surfactants which are unevenly distributed in the electrodeposits,  
preferably only existing in .ltoreq.20% of thickness from deposit  
surfaces. An Al panel was electrodeposited with an aq. compn. contg.  
acrylic acid-Bu acrylate-2-ethylhexyl acrylate-2-hydroxyethyl  
acrylate-2-hydroxyethyl methacrylate-Me methacrylate-styrene copolymer,  
Bu acrylate-2-ethylhexyl acrylate-2-hydroxyethyl acrylate-2-hydroxyethyl  
methacrylate-3-methacryloxypropyltrimethoxysilane-Me  
methacrylate-styrene copolymer, MX 40, dimethylaminoethanol, and FC 430  
to a 10-.mu.m thickness and baked at 180.degree. for 30 min to form a panel  
with blocking and scratch resistance.  
ACCESSION NUMBER: 1998:674904 CAPLUS  
DOCUMENT NUMBER: 130:4922  
TITLE: Water-soluble resin  
electrodepositing coating compositions and  
scratch-resistant films therefrom  
INVENTOR(S): Takamagari, Kenji; Yoshimura, Masanobu; Tokui, Saiki  
PATENT ASSIGNEE(S): Honey Kasei K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.  
CODEN: JKKKAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10279847	A2	19981020	JP 1997-100829	19970404
JP 3278376	B2	20020430		

PRIORITY APPLN. INFO.: JP 1997-100829 19970404

L11 ANSWER 63 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
AB Water-based coating compns. comprise an aq. soln., emulsion, or  
dispersion  
of (a) a water-sol. or water-dispersible polymer or  
oligomer having .gtoreq.1 anionic moiety capable of reacting with an  
oxazoline or oxazine moiety; (b) a water-sol. or  
water-dispersible polymer or oligomer having .gtoreq.1 oxazoline or  
oxazine moiety; and (c) a sol. comprising a colloidal dispersion of  
surface-modified, inorg. microparticles in liq.; .gtoreq.1 of the  
components (a), (b), and (c) comprising .gtoreq.1 fluoroaliph.  
moiety. Thus, a coating compn. contained mercaptopropyltrimethoxysil  
ane-modified colloidal SiO2, CX-WS 300 crosslinker, and FX 13  
acrylate-2-carboxyethyl acrylate copolymer soln. and its cured film had  
water contact angle 117.degree..  
ACCESSION NUMBER: 1998:372625 CAPLUS  
DOCUMENT NUMBER: 129:41827  
TITLE: Aqueous fluorochemical compositions and  
abrasion-resistant antifriction coatings  
INVENTOR(S): Engle, Lori P.; Hamrock, Steven J.; Moore, George G.  
I.; Pellerite, Mark J.; Zhu, Dong-wei  
PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co., USA  
SOURCE: U.S., 12 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5760126	A	19980602	US 1996-771786	19961220
WO 9828368	A1	19980702	WO 1997-US23677	19971217

W: CA, JP  
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,  
SE EP 946650 A1 19991006 EP 1997-952581 19971217  
R: DE, FR, GB, IT  
JP 2001507071 T2 20010529 JP 1998-529027 19971217  
PRIORITY APPLN. INFO.: US 1996-771786 A 19961220  
WO 1997-US23677 W 19971217  
REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

L11 ANSWER 62 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
AB The free solvent compn. comprises a water-sol.  
condensation polymer of 50-99.5:0.5-50:0-49.5 an unsatd. monomer having  
amino or ammonium salt group, an alkoxyisilane having  
polymerizable unsatd. C-C bond and an ethylenically unsatd. monomer 100,  
an alkoxyisilane having polymerizable unsatd. C-C bond 10-200 and  
an alkoxyisilane having amino, epoxy or alkoxy alkyl group 0-100  
parts. This compn. can firmly bond nonsulfur-curable elastomer materials  
to various adherends such as metals; this was hitherto difficult. A  
high-grade adhesion and superior heat resistance and oil resistance can  
be attained. Thus, an adhesive compn. for bonding of silicone,  
fluorosilicone and butadiene-nitrile copolymer rubber was prepd.  
by mixing 50 parts N,N-dimethylacrylamide and 5 parts .gamma.-  
methacryloxypropyltrimethoxysilane (I) dropwisely and adding  
and heating 22.5 parts I and 0.5 part acetic acid at 50.degree. for 2 h.  
ACCESSION NUMBER: 1998:561329 CAPLUS  
DOCUMENT NUMBER: 129:176653  
TITLE: Aqueous adhesive composition, and bonding process and  
bonded article making use of the same  
INVENTOR(S): Higuchi, Koichi; Asai, Mitsuo  
PATENT ASSIGNEE(S): Shin-Etsu Chemical Co., Ltd., Japan  
SOURCE: Eur. Pat. Appl., 12 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 857771	A2	19980812	EP 1998-101965	19980205
EP 857771	A3	19991027		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO  
JP 10279914 A2 19981020 JP 1998-36793 19980203  
US 6051097 A 20000418 US 1998-18835 19980204  
PRIORITY APPLN. INFO.: JP 1997-36984 19970205

L11 ANSWER 64 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
AB The title silicone dispersions are hardenable by crosslinking and usable  
particularly as putty, paint or film coating. The aq. silicone  
dispersions are capable of crosslinking by water elimination into an  
elastomer with suitable mech. properties and having a high cohesive and  
adhesive force on supports of different kinds and eliminating the  
drawbacks of known dispersions, in particular concerning safety/toxicity  
(VOC content) and facility for use. The dispersion contains hydroxylated  
condensable constituents, is free from hydrolyzable substituents capable  
of being transformed into volatile org. compds., and other volatile org.  
compds., and contains an hydroxylated siloxane (A), a water-  
sol. adhesion promoter contg. OH groups and hydrophilic anchoring  
groups (B), and, optionally: a catalyst (C) [tin salts], a surfactant  
(D),  
a crosslinking agent (E) (MDT hydroxylated POS resin), fillers (F  
, a dispersing agent (G), a plasticizer (H), an antifungal agent (I), an  
antifoaming agent (J), a stabilizer (K) or a base (L). The compns. are  
typically free of poly(vinyl alc.).  
ACCESSION NUMBER: 1998:210784 CAPLUS  
DOCUMENT NUMBER: 128:245056  
TITLE: Aqueous silicone elastomer dispersion  
INVENTOR(S): Feder, Michel; Jost, Philippe; Letoffe, Michel  
PATENT ASSIGNEE(S): Rhone-Poulenc Chimie, Fr.; Feder, Michel; Jost,  
Philippe; Letoffe, Michel  
SOURCE: PCT Int. Appl., 44 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: French  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9813410	A1	19980402	WO 1997-FR1698	19970926

W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP,  
KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG,  
SI, SK, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU,  
TJ, TM  
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,  
GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,  
GN, ML, MR, NE, SN, TD, TG  
FR 2753708 A1 19980327 FR 1996-11971 19960926  
FR 2753708 B1 19981231  
AU 9744641 A1 19980417 AU 1997-44641 19970926  
AU 738912 B2 20010927  
EP 928307 A1 19990714 EP 1997-943006 19970926  
EP 928307 B1 20010509  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,  
FI JP 2000503710 T2 20000328 JP 1998-515037 19970926  
JP 3329827 B2 20020930  
AT 201029 E 20010515 AT 1997-943006 19970926  
ES 2156402 T3 20010616 ES 1997-943006 19970926  
CA 2266389 C 20020709 CA 1997-2266389 19970926  
KR 2000048592 A 20000725 KR 1999-702526 19990324  
US 2001031818 A1 20011018 US 2001-844981 20010427  
US 6521699 B2 20030218  
PRIORITY APPLN. INFO.: FR 1996-11971 A 19960926  
WO 1997-FR1698 W 19970926  
US 1999-269359 B1 19990628  
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS

L11 ANSWER 64 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)  
RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

L11 ANSWER 65 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
AB The compn. comprises (a) a silane monomer mixt. of (i) Cl-12  
alkyltri(Cl-6 alkoxy)silane and (ii) tetra(Cl-6 alkoxy)  
silane in wt. ratio of 3:1-1:3; (b) hydrolyzed poly(vinyl alc.);  
(c) a lower aliph. alc. solvent; (d) a water-sol. acid  
catalyst; (e) a nonionic surfactant leveling agent; and (f)  
water in an amt. sufficient to form hydrolyzates of the silane  
monomers and to solubilize the polyvinyl alc. and acid. A cured compn.  
is  
useful as an abrasion-resistant coating on transparent articles and  
photochromic articles, such as lenses.  
ACCESSION NUMBER: 1998:196241 CAPLUS  
DOCUMENT NUMBER: 128:206018  
TITLE: Polysiloxane coating compositions with good abrasion  
resistance and photochromic articles therefor  
INVENTOR(S): Smith, Robert A.  
PATENT ASSIGNEE(S): Transitions Optical, Inc., USA  
SOURCE: U.S., 9 pp., Cont.-in-part of U.S. Ser. No. 166,053,  
abandoned.  
CODEN: USXOXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:  
PATENT NO. KIND DATE APPLICATION NO. DATE  
US 5728758 A 19980317 US 1996-635077 19960419  
US 5624757 A 19970429 US 1995-448846 19950524  
PRIORITY APPLN. INFO.: US 1993-166053 19931213  
OTHER SOURCE(S): MARPAT 128:206018  
REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR  
THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

L11 ANSWER 66 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
AB The title compns.. useful for bonding fluoro rubber compns.  
(e.g., Daeil G 701 contg. Kyowamag 150, Ca hydroxide, and MT Carbon),  
contain water-sol. silane coupling agents  
(e.g., KBM 603) and surfactants having high wettability with metals  
(e.g., Emulgen 109P).  
ACCESSION NUMBER: 1998:102744 CAPLUS  
DOCUMENT NUMBER: 128:155176  
TITLE: Aqueous vulcanizable adhesive compositions for  
fluoro rubber bonding  
INVENTOR(S): Ooshige, Jinya  
PATENT ASSIGNEE(S): Uchiyama Kogyo K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:  
PATENT NO. KIND DATE APPLICATION NO. DATE  
JP 10036797 A2 19980210 JP 1996-213239 19960723  
PRIORITY APPLN. INFO.: JP 1996-213239 19960723

L11 ANSWER 67 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
AB The detergents useful for washing automobile windows contain water  
-sol. hydrolysis condensates of fluorinated alkyl-substituted  
alkoxysilanes optionally assocd. with alkoxyallanes substituted with  
F-free monovalent hydrocarbon groups. Thus, heating 50.0 g  
C8F17(CH2)2Si(OMe)3 in 170 g BuOH in the presence of AcOH and water under  
refluxing for 2 h, adding 19.6 g H2N(CH2)3NH(CH2)3Si(OMe)3, and further  
refluxing gave a polymer soln., 2 g of which was mixed with 498 g eq.  
soln. of lauryltrimethylammonium chloride 0.08, ethylene glycol 0.1, and  
MeOH 25% to give a detergent. The detergent was left at 50.degree. for 1  
mo to show no change of appearance and it was dropped on a steel plate to  
show very small corrosion on the surface after 2-3 days.  
ACCESSION NUMBER: 1997:765438 CAPLUS  
DOCUMENT NUMBER: 128:49886  
TITLE: Water-repellent detergents containing water-  
soluble condensates of fluorinated  
alkyl-substituted alkoxyallanes  
INVENTOR(S): Matsumura, Kazuyuki; Yamamoto, Akira  
PATENT ASSIGNEE(S): Shin-Etsu Chemical Industry Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:  
PATENT NO. KIND DATE APPLICATION NO. DATE  
JP 09310094 A2 19971202 JP 1996-150009 19960521  
JP 3171109 B2 20010528  
US 6239098 B1 20010529 US 1997-999950 19970520  
PRIORITY APPLN. INFO.: JP 1996-150009 A 19960521

L11 ANSWER 68 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB The title agents are obtained by dissolving, in water, reaction products from (A) fluoroalkyl group-contg. alkoxysilanes  
 Rf(CH2)x(CH2)bsi(R2c)(OR1)3-c (Rf = CnF2n+1, polyfluoroalkyl group  
 contg. .gtoreq.1 CF3CF2CF2O(CF(CF3)CF2O)mCF(CF3); n = 1-20, m .gtoreq.1; x =  
 CH2, CH2O, NR3, CO2, CONR3, S, SO3, SO2NR3; R3 = H, Cl-8 alkyl; R1 = Cl-4  
 alkyl; R2 = Cl-4 alkyl; a = 0-3; b = 1-3; c = 0, 1) and/or hydrolyzates,  
 (B) alkyl group-contg. alkoxysilanes R4R5dsi(OR6)3-d (R4 = Cl-10  
 hydrocarbyl; R5 = Cl-4 alkyl; R6 = Cl-4 alkyl; d = 0, 1) and/or  
 hydrolyzates, (C) amino group-contg. alkoxysilanes  
 R7R8NR9Si(R10e)(OR10)3-  
 g (R7, R8 = H, Cl-13 alkyl, aminoalkyl; R9 = Cl-18 divalent hydrocarbon  
 group, R10 = Cl-4 alkyl; R11 = Cl-4 alkyl; e = 0, 1) or hydrolyzate, and  
 epoxy group-contg. alkoxysilanes (R12)R14(Si(OR13)3-f (Q =  
 epoxy group-contg. aliph. group or alicyclic hydrocarbon group, R12 =  
 divalent hydrocarbon group with or without O; R13 = Cl-4 alkyl group; R14  
 = Cl-4 alkyl; f = 0, 1) and/or hydrolyzates.  
 C8F17CH2CH2Si(OMe)3 115, Me2Si(OMe)2 2.4, sec-butanol 400, AcoH 12.2, and  
 water 5.4 g were heated under reflux for 2 h, treated dropwise 36.2 g 3-  
 aminopropyltrimethoxysilane, heated under reflux for 1 h, treated  
 dropwise with 47.6 g 3-glycidyloxypropyltrimethoxysilane, and the  
 resulting mixt. was heated under reflux 1 h to obtain a light-yellow  
 clear soln. which was dild. to 2% solids content in water to obtain a finish  
 storable at room temp. for >1 mo. The finish can be sprayed on fabrics.  
 ACCESSION NUMBER: 1997:630815 CAPLUS  
 DOCUMENT NUMBER: 127:294589  
 TITLE: Water-soluble fiber treatment  
 agents and manufacture thereof for water- and  
 oilproofing of polyester, nylon, and cotton fabrics  
 Matsumura, Kazuyuki; Asai, Mitsuo; Ichinohe, Shoji  
 Shin-Etsu Chemical Industry Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09249748	A2	19970922	JP 1996-88791	19960318
JP 3211656	B2	20010925		
US 5883185	A	19990316	US 1997-818937	19970317

PRIORITY APPLN. INFO.: JP 1996-88791 A 19960318

L11 ANSWER 70 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB The films, useful for food and drug packagings, comprise thermoplastic resin base materials, .gtoreq.1 side of which have coatings contg. (A) water-sol. polymers, (B) water-sol. or water-dispersible polyurethanes, and (C) layered inorg. compds. Thus, a coating contained poly(vinyl alc.) (I; sapon. degree 98.5 mol%, d.p. 2400), Hydran HW 350 (II), and Kunipia F (montmorillonite) in 90:10 a mixt. of H2O and i-PrOH. The coating was applied onto 1 side of a corona-treated Lumirror and dried to give a film contg. I, II, and Kunipia F at wt. ratio 45:5:50 showing O permeability 16.0 mL/m2-day-MPa. The film was adhered on T 3501 (polypropylene film) via a polyurethane adhesive to give test pieces showing peel strength 1.19, 0.98, and 0.95 N/cm initially, after processing with Geibo tester, and 48 h at 40.degree. followed by 96 h at RH 90%, resp.  
 ACCESSION NUMBER: 1997:480388 CAPLUS  
 DOCUMENT NUMBER: 127:110061  
 TITLE: Gas-barrier films having coatings containing laminar inorganic compounds  
 Kimura, Masahiro; Harada, Hiroshi; Abe, Koichi  
 Toray Industries, Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09151265	A2	19970610	JP 1995-313169	19951130
JP 3351208	B2	20021125		

PRIORITY APPLN. INFO.: JP 1995-313169 19951130

L11 ANSWER 69 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB Title films are obtained by applying (A) coating layers [surface roughness parameter (Rt/Ra) .ltoreq.20] mainly contg. water-sol. polymers and inorg. lamellar particles on .gtoreq.1 side of (B) thermoplastic polymer substrates. Thus, 50 parts 5% poly(vinyl alc.) H2O/Me2CHOH (90:10) soln. was mixed with 50 parts 2% Kunipia F aq. soln. to give a coating, which was applied on a 12 .mu.m-thick Lumirror film and dried at 120.degree. for 30 s to give a gas-barrier film showing coating layer thickness 0.5 .mu.m, Rt/Ra = 4.2, good bondability, and gas-barrier property at high humidity and after durability test.  
 ACCESSION NUMBER: 1997:480391 CAPLUS  
 DOCUMENT NUMBER: 127:110066  
 TITLE: Gas-barrier films with good bondability and gas-barrier property at high humidity and after durability test  
 Harada, Hiroshi; Kimura, Masahiro; Abe, Koichi  
 Toray Industries, Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09150484	A2	19970610	JP 1996-254326	19960926
EP 805177	A2	19971105	EP 1997-302132	19970327
EP 805177	A3	19980715		
EP 805177	B1	20030903		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI  
 AT 248881 E 20030915 AT 1997-302132 19970327  
 PRIORITY APPLN. INFO.: JP 1995-252514 A 19950929  
 JP 1996-83710 A 19960405  
 JP 1996-165837 A 19960626  
 JP 1996-254326 A 19960926  
 JP 1996-268431 A 19961009

L11 ANSWER 71 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB The films, useful for food and drug packagings, comprise thermoplastic resin base materials, .gtoreq.1 side of which have coatings contg. (A) water-sol. polymers, (B) water-sol. or water-dispersible polymers.degree., and (C) layered inorg. compds. Thus, a coating contained poly(vinyl alc.) (I; sapon. degree 98.5 mol%, d.p. 2400), 50:40:10 acrylic acid-Bu acrylate-Me methacrylate copolymer (II), and Kunipia F (montmorillonite) in 90:10 a mixt. of H2O and i-PrOH. The coating was applied onto 1 side of a corona-treated Lumirror and dried to give a film contg. I, II, and Kunipia F at wt. ratio 40:10:50 showing O permeability 14.8 mL/m2-day-MPa. The film was adhered with T 3501 (polypropylene film) via a polyurethane adhesive to give test pieces showing peel strength 0.98 N/cm initially and 0.39 N/cm after 30 min in H2O at 95.degree..  
 ACCESSION NUMBER: 1997:480387 CAPLUS  
 DOCUMENT NUMBER: 127:110060  
 TITLE: Gas-barrier films having moisture-resistant coatings containing laminar inorganic compounds  
 Kimura, Masahiro; Harada, Hiroshi; Abe, Koichi  
 Toray Industries, Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09151264	A2	19970610	JP 1995-313168	19951130
JP 3374625	B2	20030210		

PRIORITY APPLN. INFO.: JP 1995-313168 19951130

L11 ANSWER 72 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB The films, useful for food and drug packagings, comprise thermoplastic resin base materials, .gtoreq.1 side of which have coatings contg. (A) water-sol. polymers, (B) water-sol. or water-dispersible polymers showing Tg .ltoreq.70.degree., and (C) layered inorg. compds. Thus, a coating contained poly(vinyl alc.) (I; sapon. degree 98.5 mol%, d.p. 2400), acrylic acid-Et acrylate-Me methacrylate copolymer (II; Tg 40.degree.), and Kunipia F (montmorillonite) in 90:10 a mixt. of H2O and i-PrOH. The coating was applied onto 1 side of a corona-treated Lumirror and dried to give a film contg. I, II, and Kunipia F at wt. ratio 45:5:50 showing O permeability 14.8 mL/m2-day-MPa initially and 24.6 mL/m2-day-MPa after processing with Gelbo tester. The film was adhered on T 3501 (polypropylene film) via a polyurethane adhesive to give test pieces showing peel strength 1.21 N/cm initially and 0.43 N/cm after 30 min in H2O at 95.degree..

ACCESSION NUMBER: 1997:480386 CAPLUS  
DOCUMENT NUMBER: 127:110059  
TITLE: Gas-barrier films having good coating adhesion and their preparation methods  
INVENTOR(S): Harada, Hiroshi; Kimura, Masahiro; Abe, Koichi  
PATENT ASSIGNEE(S): Toray Industries, Inc., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
CODEN: JKKXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09151263	A2	19970610	JP 1995-313170	19951130
JP 3367628	B2	20030114		

PRIORITY APPLN. INFO.: JP 1995-313170 19951130

L11 ANSWER 73 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB An improved process for manufg. viscosifying water-sol. and water-insol. carboxylic acid (co)polymers with tolerance to salt-contg. water, comprises polyng. a carboxylic acid or its salt or ester monomer, and optionally, a polyfunctional crosslinker monomer in a silicone solvent under an inert atm. in the presence of an initiator. Thus, acrylic acid preneutralized by anhyd. potassium carbonate 36.00, allyl methacrylate 0.44 g and lauroyl peroxide 0.144 g were mixed in argon-purged octamethylcyclotetrasiloxane (Dow Corning 244), and polymd. to give a polymer having viscosity (0.5% mucilage, pH 7/1 RPM) 143,000 cps

(ASTM E 2196).  
ACCESSION NUMBER: 1997:262715 CAPLUS  
DOCUMENT NUMBER: 126:317825  
TITLE: Preparation of viscosifying water-soluble and water-insoluble carboxylic acid polymers in silicone oil solvents  
INVENTOR(S): Tomlin, Anthony S.; Sojka, Milan F.  
PATENT ASSIGNEE(S): AMCOL International Corporation, USA  
SOURCE: U.S., 9 pp., Cont.-in-part of U. S. Ser. No. 327,580, abandoned.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 9  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5618877	A	19970408	US 1995-486455	19950607
US 5608005	A	19970304	US 1995-504999	19950720
EP 709406	A1	19960501	EP 1995-307325	19951016
EP 709406	B1	19990506		
R: BE, DE, GB, IT, NL				
JP 08208719	A2	19960813	JP 1995-275535	19951024
US 5773546	A	19980630	US 1996-723866	19960930
US 5830967	A	19981103	US 1997-810268	19970303
US 5837790	A	19981117	US 1997-811126	19970303
US 5830960	A	19981103	US 1997-935346	19970922
US 6107429	A	20000822	US 1997-954020	19971020
US 5955552	A	19990921	US 1998-75578	19980511
US 6248849	B1	20010619	US 1998-182958	19981030
US 6387995	B1	20020514	US 2001-776516	20010201

PRIORITY APPLN. INFO.:  
US 1994-327580 B2 19941024  
US 1995-486107 B2 19950607  
US 1995-486455 A 19950607  
US 1997-810268 A2 19970303  
US 1997-811126 A3 19970303  
US 1997-935346 A1 19970922  
US 1998-182958 A3 19981030

L11 ANSWER 74 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB The title media has ink receptor layer(s) with M/S ratio 1-1.5 (S = as-printed single dot area; M = dot area after 3 days at 32.degree. and 85%RH). The ink receptor layer contains copolymers of diallylamine and diallyldimethylammonium chloride as major monomers, hydrophilic resins such as poly(vinyl alc.) and crosslinking resins such as water-sol. melamine resin, and F-contg. surfactants and silane surfactants. The support may have an anchor coating.

ACCESSION NUMBER: 1997:186775 CAPLUS  
DOCUMENT NUMBER: 126:192987  
TITLE: Ink-jet recording media suitable for high-resolution full-color images with good water and moisture resistance  
INVENTOR(S): Kotani, Toru; Ito, Katsuya; Suzuki, Toshitake  
PATENT ASSIGNEE(S): Toyo Boseki, Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
CODEN: JKKXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09001923	A2	19970107	JP 1995-154478	19950621

PRIORITY APPLN. INFO.: JP 1995-154478 19950621

L11 ANSWER 75 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB Water-based coating compns. comprise an aq. soln., emulsion, or dispersion of (a) a water-sol. or water-dispersible polymer or oligomer having at least one anionic moiety which is capable of reacting with an oxazoline or oxazine moiety, (b) a water-sol. or water-dispersible polymer or oligomer having at least one oxazoline or oxazine moiety, and (c) colloidal silica, at least one of the components (a) and (b) further comprising at least one fluoroalkyl moiety. The compns. are useful for forming hard coatings having low surface energy and high abrasion resistance.

ACCESSION NUMBER: 1997:172493 CAPLUS  
DOCUMENT NUMBER: 126:173137  
TITLE: Aqueous fluoropolymer compositions and abrasion-resistant coatings therefrom  
INVENTOR(S): Zhu, Dong-Wei  
PATENT ASSIGNEE(S): Minnesota Mining and Mfg. Co., USA  
SOURCE: PCT Int. Appl., 30 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9700917	A1	19970109	WO 1996-US7661	19960524
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,				
SE				
US 5608003	A	19970304	US 1995-494157	19950623
CA 2235519	AA	19970109	CA 1996-223519	19960524
EP 833869	A1	19980408	EP 1996-920479	19960524
EP 833869	B1	19990929		
R: BE, DE, FR, GB, IT				
JP 11507972	T2	19990713	JP 1996-503449	19960524

PRIORITY APPLN. INFO.:  
US 1995-494157 A 19950623  
WO 1996-US7661 W 19960524

L11 ANSWER 76 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB The present invention is directed to comps. comprising an oligonucleotide

linked to a detectably labeled marker component comprising a fluorophore moiety which comprises a substantially planar, multidentate macrocyclic ligand coordinated to a central atom capable of coordinating with two axial ligands and two polyoxyhydrocarbyl moieties which are attached as axial ligands to the central atom. The present invention is also directed to nucleic acid hybridization and

amplification methods employing such comps. 2,3-Dicarboxyphthalocyaninato-bis-[3-(1H-imidazol-1-ylcarbonyl)aminopropyl]dimethylsilanolato)silicon was prepd.

and reacted with ethyleneamine-terminated polyethylene glycol to prep. a fluorophore of the invention. The prepd. fluorophore was further conjugated to a 30-nucleotide DNA sequence. The hybridization behavior of this probe and its use in 3SR RNA product detection was

examd.

ACCESSION NUMBER: 1997:169187 CAPLUS

DOCUMENT NUMBER: 126:234411

TITLE:

Fluorophore-oligonucleotide conjugates for

use in nucleic acid hybridization and amplification

Dandliker, Walter B.; Devlin, Robert F.

Patent Assignee(s): Diatron Corporation, USA

SOURCE: U.S., 19 pp., Cont.-in-part of U.S. 5,403,928.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 9

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5606045	A	19970225	US 1993-51446	19930421
US 5403928	A	19950404	US 1991-701449	19910515
ES 2163393	T3	20020201	ES 1991-912121	19910515
US 5707813	A	19980113	US 1996-709285	19960906
PRIORITY APPLN. INFO.:			US 1990-523601	B2 19900515
			US 1990-524212	B2 19900515
			US 1991-701449	A2 19910515
			US 1991-701465	B2 19910515
			US 1993-51446	A3 19930421

L11 ANSWER 77 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB Water-sol. hybrid phthalocyanine derivs., fluorescent

latex particles incorporating which are useful in competitive and noncompetitive immunoassays and nucleic acid assays, have (1) .gtoreq.1 donor subunit with a desired excitation peak and (2) .gtoreq.1 acceptor subunit with a desired emission peak, and are capable of intramol. energy transfer from the donor subunit to the acceptor subunit. They may also contain an electron-transfer subunit. Axial ligands may be covalently bound to the metals contained in the water-sol. hybrid phthalocyanine derivs. Ligands, ligand analogs, polypeptides, proteins, and nucleic acids can be linked to the axial ligands of the dyes to form conjugates useful in immunoassays and nucleic acid assays.

ACCESSION NUMBER: 1996:761698 CAPLUS

DOCUMENT NUMBER: 126:33023

TITLE:

Hybrid phthalocyanine derivatives and their uses

Buechler, Kenneth F.; Noar, Joseph B.; Tadesse, Lema

Patent Assignee(s): Biosite Diagnostics Incorporated, USA

SOURCE: PCT Int. Appl., 190 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9629367	A1	19960926	WO 1996-US3833	19960322
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CH, GA, GN, ML				
CA 2215727	AA	19960926	CA 1996-2215727	19960322
AU 9653188	A1	19961008	AU 1996-53188	19960322
EP 820489	A1	19980128	EP 1996-909805	19960322
EP 820489	B1	20010711		
R: AT, CH, DE, ES, FR, GB, IT, LI, NL				
JP 10508897	T2	19980902	JP 1996-528604	19960322
JP 3388753	B2	20030324		
AT 203045	E	20010715	AT 1996-909805	19960322
PRIORITY APPLN. INFO.:			US 1995-409825	A 19950323
			WO 1996-US3833	W 19960322

L11 ANSWER 78 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB The comps. are manufd. by copolyng. (A) .alpha.,.beta.-unsatd.

carboxylic

acid hydroxy-contg. alkyl ester monomers, (B) .alpha.,.beta.-unsatd. carboxylic acid alkoxyasilane-contg. alkyl ester monomers, and (C) vinyl monomers contg. no functional groups in the presence of (D) water-sol. or water-dispersible acrylic polymers having carboxy and hydroxy groups in side chains, mixing with amino resins and F-contg. surfactants, partially neutralizing with org. amines, and mixed with water to give emulsions. Thus, polyng. acrylic acid 9, 2-hydroxyethyl acrylate (I) 10, 2-hydroxyethyl methacrylate (II) 5, styrene 10, 2-ethylhexyl acrylate (III) 10, Bu acrylate (IV) 20, and MMA 36 parts, adding I 5, II 2.5, III 5, styrene 5, IV 10, MMA 20, and .gamma.-methacryloxypropyltrimethoxysilane 2.5 parts, and heating gave an acrylic polymer, 100 parts of which were mixed with a melamine resin (MX 40) 28.1, a surfactant (FC 170C) 0.5, and dimethylaminoethanol 2.1 parts, emulsified, blended with water, and

coated on an Al plate to give coatings showing gloss 12%.

ACCESSION NUMBER: 1996:715499 CAPLUS

DOCUMENT NUMBER: 125:331691

TITLE:

Manufacture of acrylic resin compositions for matte

electrodeposition coatings

Obata, Katsuya; Hara, Katsushige; Yano, Yasuhiro

Patent Assignee(s): Honey Kasei KK, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08231902	A2	19960910	JP 1995-61589	19950227
PRIORITY APPLN. INFO.:			JP 1995-61589	19950227

L11 ANSWER 79 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB The title comps. are prepd. by mixing 30-60% of a water

sol. amino silane and 40-70% of a normally water-immiscible alkenyl-functional silane and hydrolyzing at pH 4-7 and in the absence of org. solvent to form a stable, water-dilutable aq. compn. which is useful in bonding polymers to solid substrates. An adhesive was prepd. by hydrolysis of a mixt. of aminopropyltriethoxysilane and vinyltriethoxysilane acidified with HOAc.

ACCESSION NUMBER: 1996:311661 CAPLUS

DOCUMENT NUMBER: 124:345387

TITLE:

Aqueous silane adhesive compositions

Sexsmith, Frederick H.

Patent Assignee(s): Lord Corp., USA

SOURCE: PCT Int. Appl., 23 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9604339	A1	19960215	WO 1995-US9700	19950727
W: CA, JP, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2195426	AA	19960215	CA 1995-2195426	19950727
EP 773974	A1	19970521	EP 1995-928235	19950727
R: BE, DE, ES, FR, GB, IE, IT, NL, PT, SE				
JP 10506657	T2	19980630	JP 1995-506693	19950727
JP 3353300	B2	20021203	JP 1996-506693	19950727
US 5907015	A	19990525	US 1997-776966	19970519
PRIORITY APPLN. INFO.:			US 1994-284829	A2 19940802
			WO 1995-US9700	W 19950727



L11 ANSWER 80 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
AB The title compns. contain water-sol. or water-dispersible reaction products of a perfluoroalkanesulfonamide, a compd. contg. epoxide groups, and a compd. contg. oxyethylene units and a group reactive with epoxide groups and are esp. useful as waterproofing and oilproofing finishes on textiles, ceramics, etc. An adduct of polyethylene glycol and succinic anhydride was reacted with bisphenol A diglycidyl ether and N-methylperfluorooctanesulfonamide, and the product was mixed with water and C8F17SO2NMeCH2CH(OH)CH2Si(OCH2CH2OMe)3 to prep.

a dispersion which was stable for >3 mo. The dispersion was applied to cotton fabric and heated at 110.degree. to give a water- and oil-repellent fabric.

ACCESSION NUMBER: 1995:89425 CAPLUS  
DOCUMENT NUMBER: 124:119079  
TITLE: Crosslinkable compositions containing perfluoroalkyl group-containing alkoxyasilanes and water  
INVENTOR(S): Kirchmeyer, Stephan; Pohmer, Klaus; Hassel, Tillmann  
PATENT ASSIGNEE(S): Bayer A.-G., Germany  
SOURCE: Ger. Offen., 11 pp.  
CODEN: GWXXBX  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4418308	A1	19951130	DE 1994-4418308	19940526
EP 694551	A1	19960131	EP 1995-107322	19950515
EP 694551	B1	20000105		
R: BE, DE, ES, FR, GB, IT, NL				
ES 2142424	T3	20000416	ES 1995-107322	19950515
JP 08081632	A2	19960326	JP 1995-142398	19950518
US 5547711	A	19960820	US 1995-444604	19950519
CA 2149958	AA	19951127	CA 1995-2149958	19950523
PRIORITY APPLN. INFO.:			DE 1994-4418308 A	19940526

L11 ANSWER 82 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
AB An aq. glass fiber sizing compn. is provided which provides high strength and wet-out to composites prep. using glass fibers having the sizing compn. of the present invention applied thereto. When used to reinforce

a thermosetting polymeric material, the glass fibers sized with this compn. provide a composite useful in making pultrusion profiles having high compressive, shear and flexural strengths. The compn. includes a nonionic

urethane-modified epoxy thermosetting copolymer; a water-sol., dispersible or emulsifiable epoxy film-forming polymer; and emulsifying agent; and organo-functional silane coupling agent; a fiber lubricant; and water in an amt. sufficient for application of the sizing compn. to at least one glass fiber.

ACCESSION NUMBER: 1995:808205 CAPLUS  
DOCUMENT NUMBER: 123:206826  
TITLE: Glass fiber sizing compositions, sized glass fibers and methods of reinforcing polymeric materials using the same  
INVENTOR(S): Klett, Michael Walter  
PATENT ASSIGNEE(S): PPG Industries, Inc., USA  
SOURCE: PCT Int. Appl., 29 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9520549	A1	19950803	WO 1995-US615	19950116
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2181485	AA	19950803	CA 1995-2181485	19950116
EP 741676	A1	19961113	EP 1995-908059	19950116
EP 741676	B1	19980527		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
JP 09508347	T2	19970826	JP 1995-520087	19950116
ES 2119391	T3	19981001	ES 1995-908059	19950116
PRIORITY APPLN. INFO.:			US 1994-186963	19940127
			WO 1995-US615	19950116

L11 ANSWER 81 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
AB A coating compn. for the prepn. of abrasion resistant coatings consisting essentially of: (a) 5-35 wt.% of a silane monomer mixt. of (i) C1-C12 alkyl tri(C1-C6)alkoxyasilane and (ii) tetra(C1-C6)alkoxyasilane in wt. ratio of 3:1-1:3; (b) 1-9 wt.% poly(vinyl alc.); (c) a solvating amt. of lower aliph. alc.; (d) a catalytic amt. of water-sol. acid; (e) a leveling amt. of nonionic surfactant; and (f) water in an amt. sufficient to form hydrolyzates of the silane monomers and to solubilize the poly(vinyl alc.) and acid. Transparent articles and photochromic articles, such as lenses, comprising org. polymeric host material, org. photochromic compds., and a cured abrasion-resistant coating are prepd.

by using the coating compn.  
ACCESSION NUMBER: 1995:886131 CAPLUS  
DOCUMENT NUMBER: 123:289927  
TITLE: Coating compositions and articles coated with them  
INVENTOR(S): Smith, Robert A.  
PATENT ASSIGNEE(S): PPG Industries, Inc., USA  
SOURCE: PCT Int. Appl., 37 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9516731	A1	19950622	WO 1994-US13963	19941205
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5624757	A	19970429	US 1995-448846	19950524
PRIORITY APPLN. INFO.:			US 1993-166053	19931213

L11 ANSWER 83 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
AB Storage-stable title emulsions are prepd. by emulsifying and dispersing RnSi(R1)4-n [R = C1-21 (halo)hydrocarbyl; R1 = C1-3 alkoxy, halogen, NH2, CO2H; n = 1, 2] in the presence of polycarboxylate water-sol. polymer emulsifying agents. Thus, 200 g 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyltrimethoxysilane and 5 g Carbomer were stirred to give an emulsion, a 1% water-thinned soln.

of which was spread on a glass substrate to give a sample specimen, which showed contact angle to water and fluidized paraffin 107 and 105.degree..

ACCESSION NUMBER: 1995:268644 CAPLUS  
DOCUMENT NUMBER: 122:217171  
TITLE: Oil-in-water emulsions of silane water repellents  
INVENTOR(S): Tabata, Takehito; Ukaji, Shizuo  
PATENT ASSIGNEE(S): Nihon Surfactant Kogyo KK, Japan; Nikko Chemicals  
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
CODEN: JXOXXF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06228541	A2	19940816	JP 1993-40637	19930205
PRIORITY APPLN. INFO.:			JP 1993-40637	19930205
OTHER SOURCE(S):			MARPAT 122:217171	

L11 ANSWER 84 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

GI For diagram(s), see printed CA Issue.

AB This invention concerns prepn. of water-sol. tetraazaporphines represented by the general formula I (explained in patent), fluorochromes for labeling comprising such tetraazaporphines, reagents comprising the fluorochrome for labeling and a nonionic surfactant, substances derived from organisms (e.g., antigens, antibodies, nucleotides, etc.) that are labeled with the fluorochrome, and reagents comprising any of the labeled substances that can be used for assay of various antigens, drugs, DNA,

and the like, and detn. of the base sequence of DNA. Fluorescence anal. can be done using the labeled substances. As one example, .beta.-globin gene was detected in human DNA by using an oligodeoxynucleotide labeled at the 5'-end with a tetraazaporphin of this invention.

ACCESSION NUMBER: 1995:234551 CAPLUS  
DOCUMENT NUMBER: 122:50737  
TITLE: Water-soluble tetraazaporphines and fluorochrome for labeling.  
INVENTOR(S): Tai, Seiji; Katayose, Mitsuo; Watanabe, Hiroo  
PATENT ASSIGNEE(S): Hitachi Chemical Co., Ltd., Japan  
SOURCE: Eur. Pat. Appl., 67 pp.  
CODEN: EPKXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 597389	A1	19940518	EP 1993-117909	19931104
EP 597389	B1	20021002		
R: DE, GB				
JP 06200177	A2	19940719	JP 1993-210059	19930825
JP 3208942	B2	20010917		
US 5627028	A	19970506	US 1993-145199	19931103
US 5665875	A	19970909	US 1995-460930	19950605
PRIORITY APPLN. INFO.:			JP 1992-299773	A 19921110
			JP 1993-210059	A 19930825
			US 1993-145199	A3 19931103

L11 ANSWER 85 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB The title compn. for treatment of concrete comprises (a) alkylalkoxysilane and/or a condensate thereof, (b) a nonionic emulsifier and an anionic emulsifier, (c) a bactericide or fungicide, and (d) H<sub>2</sub>O, optionally (e) a water-dispersible resin and (f) a pigment. A white stable emulsion (.gtoreq.6 mo at room temp.) contained n-hexyltriethoxysilane 400, polyoxyethylene stearyl ether 2, Na laurylsulfate 0.02, 1% aq. NaOH soln. 1, 1,2-benzisothiazolin-3-one 0.5, and 2-n-octyl-4-isothiazolin-3-one 2 g, dild. with water. Concrete specimen having the above waterproofing agent (penetration into concrete 4.3 mm) showed water contact angle <90.degree..

ACCESSION NUMBER: 1994:658107 CAPLUS  
DOCUMENT NUMBER: 121:258107  
TITLE: Water-soluble or water-dispersible, organic silicon-containing composition having excellent antibacterial and antifungal properties  
INVENTOR(S): Suzuki, Takehiro; Zushi, Kenji; Okayama, Akio  
PATENT ASSIGNEE(S): Toyo Ink Mfg. Co., Ltd., Japan  
SOURCE: Eur. Pat. Appl., 14 pp.  
CODEN: EPKXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 594440	A1	19940427	EP 1993-308402	19931021
EP 594440	B1	19970528		
R: DE, FR, GB				
JP 06128055	A2	19940510	JP 1992-309287	19921023
JP 2645204	B2	19970825		
JP 06172677	A2	19940621	JP 1992-350734	19921204
JP 2738248	B2	19980408		
JP 06256072	A2	19940913	JP 1993-38451	19930226
PRIORITY APPLN. INFO.:			JP 1992-309287	19921023
			JP 1992-350734	19921204
			JP 1993-38451	19930226

L11 ANSWER 86 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB Novel packing materials are provided for liq. chromatog. and/or solid-phase extn. columns which will allow direct injection of biol. fluids for sepn. of small analytes from protein-contg. mixts. These packing materials have a hydrophilic exterior layer and a hydrophobic, charged, or otherwise selective portion that forms an underlayer or is embedded in the hydrophilic layer. During a chromatog. process, large water-sol. biopolymers will be in contact with the hydrophilic outer layer and be shielded from interacting with the underlayer or embedded portion and elute unretained. Small analytes, on the other hand, can be fully partitioned throughout the exterior and interior layers and are retained by hydrophobic or electrostatic interactions. Silica- and silica gel-bonded phases were prepd. [e.g., N,N-bis(2'-methoxyethyl)-11-(triethoxysilyl)undecylamine was prepd. and bonded to silica gel] and used in the direct analyses of drugs in plasma or serum samples.

ACCESSION NUMBER: 1994:186764 CAPLUS  
DOCUMENT NUMBER: 120:186764  
TITLE: Shielded stationary phases for liquid chromatography or extn. of mixtures containing proteins and small analytes  
INVENTOR(S): Feibush, Binyamin; Gisch, Daryl J.  
PATENT ASSIGNEE(S): S.A.C. Corp., USA  
SOURCE: U.S., 19 pp. Cont. of U.S. Ser. No. 557,333, abandoned.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5277813	A	19940111	US 1992-988610	19921210
PRIORITY APPLN. INFO.:			US 1988-208200	19880617
			US 1990-557333	19900723

L11 ANSWER 87 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN

AB Water-sol. tetraazaporphines, fluorochromes from them, biol. substances labeled with the fluorochromes, reagents comprising them, and their use in fluorescence anal. are described. A semiconductor laser having an output wavelength of 670-840 nm is used as a light source. Na bis(tributylsilyloxy)silicon tetraphenylthio(naphthalocyanine)octacarboxylate (I) (prepn. described) was coupled to the 5'-end of ACAGCACTGTTTCTACTAGC and used in the detection of the .beta.-globin gene in human DNA. I was also coupled to PABA and morphine. Antimorphine monoclonal antibody had only slightly diminished affinity for the morphine conjugate.

ACCESSION NUMBER: 1994:101292 CAPLUS  
DOCUMENT NUMBER: 120:101292  
TITLE: Water-soluble tetraazaporphines and fluorochromes for labeling  
INVENTOR(S): Tai, Seiji; Katayose, Mitsuo; Watanabe, Hiroo  
PATENT ASSIGNEE(S): Hitachi Chemical Co., Ltd., Japan  
SOURCE: Eur. Pat. Appl., 110 pp.  
CODEN: EPKXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 502723	A2	19920909	EP 1992-301873	19920304
EP 502723	A3	19930127		
EP 502723	B1	19961009		
R: DE, FR, GB, IT, NL				
JP 05163439	A2	19930629	JP 1992-22192	19920207
JP 2964761	B2	19991018		
US 5438135	A	19950801	US 1992-846169	19920305
PRIORITY APPLN. INFO.:			JP 1991-38349	19910305
			JP 1991-146005	19910618
			JP 1991-139308	19910701
			JP 1991-268016	19911017

OTHER SOURCE(S): MARPAT 120:101292

L11 ANSWER 88 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB Microbicidal compns. are coated partially or totally on the surfaces with hydrolyzates of fluoroalkylalkoxysilanes. Water-sol. Ag salts 100, Na2SO3 + NaHSO3 450, and water-sol. salts of Na thiosulfate 300 wt. parts were dissolved in H2O to give Ag complex salt soln., which (at 2 wt. parts as Ag) was mixed with 100 wt. parts dried silica gel followed by drying and pulverizing. The silica gel (100 wt. parts) was dispersed in a mixt. of 100 wt. parts trifluoropropyltrimethoxysilane and EtOH and the mixt. was mixed with H2O and dried to give a microbicidal compn. The compn. (5 wt. parts) was dispersed in 100 wt. parts polymers and molded to show inhibition of Escherichia coli, Staphylococcus aureus, and Bacillus subtilis.  
 ACCESSION NUMBER: 1994:71559 CAPLUS  
 DOCUMENT NUMBER: 120:71559  
 TITLE: Microbicidal compositions coated with fluoroalkylalkoxysilane hydrolyzates  
 INVENTOR(S): Tomioka, Toshiichi; Nishino, Atsushi  
 PATENT ASSIGNEE(S): Matsushita Electric Ind Co Ltd, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05262603	A2	19931012	JP 1992-64576	19920323
JP 3166277	B2	20010514		

PRIORITY APPLN. INFO.: JP 1992-64576 19920323

L11 ANSWER 89 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB The title weather-resistant electrophoretic coatings comprise (A) CO2H- or OH-contg. fluoropolymers 5-50, (B) water-sol. or dispersible alkoxysilyl-contg. acrylic polymers 5-60 and (C) crosslinkers 20-60% or A 5-50, B 5-55, other acrylic polymers 5-40 and C 20-60%. Thus, a compn. contg. Lumiflon 916 (fluoroethylene-cyclohexyl vinyl ether copolymer) 30, vinyltriethoxysilane-methacrylic acid-2-hydroxyethyl methacrylate-Me methacrylate-Bu acrylate copolymer Et3N salt 35, and Nikalox MX 40 35 parts gave a smooth film with 60.degree. glass 20% and nonyellowing after 3000 h under weatherometer.  
 ACCESSION NUMBER: 1993:605569 CAPLUS  
 DOCUMENT NUMBER: 119:205569  
 TITLE: Alkoxysilyl acrylic polymer-containing fluoropolymer matte coatings  
 INVENTOR(S): Nishitani, Yukihiko; Matsumoto, Hideo; Ono, Masatoshi;  
 Taniguchi, Eiichi  
 PATENT ASSIGNEE(S): Nippon Paint Co Ltd, Japan; Toray Industries Jpn. Kokai Tokkyo Koho, 14 pp.  
 SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05039445	A2	19930219	JP 1991-216377	19910802
JP 2966593	B2	19991025		

PRIORITY APPLN. INFO.: JP 1991-216377 19910802

L11 ANSWER 90 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB Mothproofing agents, which are solubilized in H2O, contain (4-ethoxyphenyl)[3-(4-fluoro-3-phenoxyphenyl)propyl](dimethyl)silane (I) as the active ingredient and RO(C2H4O)1(C3H6O)m(C4H8O)nH (R = H, C1-18 alkyl, C8-12 alkylphenyl; 1, m, n = 0-6). I 20, polyoxyethylene polyoxypropylene Bu ether 40, polyoxyethylene nonylphenyl ether 36, and Ca dodecylbenzenesulfonate 4 wt.% were mixed to give a soln. A wool textile, treated with the soln. (contg. 0.01 wt.% I based on the textile) repelled larvae of Tinea pellionella for 6 mo.  
 ACCESSION NUMBER: 1992:545350 CAPLUS  
 DOCUMENT NUMBER: 117:145350  
 TITLE: Mothproofing agents containing a tetraalkylsilane and polyoxyalkylenes  
 INVENTOR(S): Katsuta, Yoshio; Hayashi, Fumio; Fujie, Masako  
 PATENT ASSIGNEE(S): Dainippon Jochugiku K. K., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04089414	A2	19920323	JP 1990-202059	19900730
			JP 1990-202059	19900730

PRIORITY APPLN. INFO.: JP 1990-202059 19900730  
 OTHER SOURCE(S): MARPAT 117:145350

L11 ANSWER 91 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB The ceramics are manufd. by dispersing ball-milled Si3N4 with sintering aids (SiO2 and/or Y2O3) in a water sol. plastic binder, e.g. poly(2-ethyl-2-oxazoline) (pH approx. 10), drying; injection molding at 400-500.degree.F in Ar, stripping the binder at 700-850.degree.F, and sintering.  
 ACCESSION NUMBER: 1991:233770 CAPLUS  
 DOCUMENT NUMBER: 114:233770  
 TITLE: Manufacture of homogeneous and defect-free silicon nitride ceramics by injection molding  
 INVENTOR(S): Walter, Robert Joseph; Robinson, Michael Joe  
 PATENT ASSIGNEE(S): Rockwell International Corp., USA  
 SOURCE: Eur. Pat. Appl., 8 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 419757	A1	19910403	EP 1990-107866	19900425
EP 419757	B1	19940316		
US 5204296	A	19930420	JP 1989-412957	19890926
JP 03120004	A2	19910522	JP 1990-250447	19900921

PRIORITY APPLN. INFO.: US 1989-412957 19890926

L11 ANSWER 92 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB The zinciferous surface, esp. a galvanized layer, is chromized at 10-200 mg Cr/m<sup>2</sup>, for corrosion resistance, weldability, and paintability, in a bath contg. Cr6+, Cr3+, PO43-, a tertiary alc. or a water-sol. org. compd. wetting agent, and a silane coupling agent.

ACCESSION NUMBER: 1991:47462 CAPLUS  
 DOCUMENT NUMBER: 114:47462  
 TITLE: Chromizing of zinciferous surfaces  
 INVENTOR(S): Yoshitake, Noriaki; Saeki, Kenshi; Honda, Takumi  
 PATENT ASSIGNEE(S): Henkel K.-G.A.A., USA  
 SOURCE: Eur. Pat. Appl., 16 pp.  
 CODEN: EPXKXW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 391442	A1	19901010	EP 1990-106675	19900406
EP 391442	B1	19931006		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 02267277	A2	19901101	JP 1989-89415	19890407
JP 07053911	B4	19950607		
ZA 9002660	A	19910130	ZA 1990-2660	19900405
US 5141575	A	19920825	US 1990-505337	19900405
CA 2014010	AA	19901007	CA 1990-2014010	19900406
AT 95575	E	19931015	AT 1990-106675	19900406
ES 2045616	T3	19940116	ES 1990-106675	19900406
BR 9001625	A	19910507	BR 1990-1625	19900408
AU 9053155	A1	19901025	AU 1990-53155	19900411
AU 635011	B2	19930311		
PRIORITY APPLN. INFO.:			JP 1989-89415	19890407
			EP 1990-106675	19900406

L11 ANSWER 94 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB The title compns., which improve adhesion of resins to glass surfaces, which are useful as coupling agents for glass fabric reinforcers in printed circuits, etc., comprise (A) water-sol. solvents and (B) compds. prep. by treating the reaction products of NH2-terminated linear poly(alkylene oxide) diamines and XIASIRImR23-m (A = Cl-10 org. group; R1 = hydrolyzable alkoxy or aryloxy residue; R2 = H, Cl-6 hydrocarbyl; X1 = halogen; m = 2, 3) with YX2 (X2 = halogen; Y = Cl-15 linear or cyclic group having an active H-contg. N moiety). Treating 4,9-dioxadodecane-1,12-diamine with 3-chloropropyltrimethoxysilane in EtOH under reflux for 30 h and then reacting this intermediate with 2-phenyl-4-methyl-5-fluoromethylimidazole at room temp. for 5 h gave a product (I). Then 7628 (glass cloth) was immersed in an aq. I soln. contg. AcOH, dried at 120.degree., impregnated with a varnish contg. AER 711EK80, dicyandiamide, and PhCH2NMe2, and dried to give a prepreg, several of which were laminated with Cu foil, hot-pressed, and etched to give a test piece showing improved solder heat resistance, boiling water resistance, solvent resistance, and elec. properties, compared to that of a control prepreg. using 3-aminopropyltriethoxysilane instead of I.

ACCESSION NUMBER: 1989:516345 CAPLUS  
 DOCUMENT NUMBER: 111:116345  
 TITLE: Water-soluble silane compositions  
 INVENTOR(S): Tsujisaka, Norio; Sato, Minoru  
 PATENT ASSIGNEE(S): Asahi-Schwebel Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
 CODEN: JKKXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01083088	A2	19890328	JP 1987-240250	19870925
JP 2577753	B2	19970205		
PRIORITY APPLN. INFO.:			JP 1987-240250	19870925
OTHER SOURCE(S):			MARPAT 111:116345	

L11 ANSWER 93 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB To increase corrosion resistance, a Zn alloy-coated steel sheet is conventionally chromated and then coated with an org. layer (on .gtoreq.1 side) of a water-sol. resin 100, colloidal silica gel 5-80, a silane coupling agent 1-40, a Si- or F-contg. water repellent 1-20, and a water-sol. isocyanate crosslinking agent 5-20 parts. After drying, thickness of the resulting org. layer is 0.1-5 .mu.m. Thus, a Zn-12%Ni alloy-coated steel sheet was degraded, chromated, dried at 120.degree., and coated with an org. layer 0.8 .mu.m thick at 180.degree.. The org. coating consisted of a water-sol. urethane resin 100, colloidal silica gel 50, 3-methacryloxypropyltrimethoxysilane (coupling agent) 3, Light Silicone P-290 (water repellent) 10, Millionate MS-50 isocyanate (crosslinking agent) 10, and water 200 parts. The coated specimens were exposed to salt spray corrosion testing for 200 cycles (4 h at 35.degree., drying 2 h at 60.degree., and salt spraying 2 h at 50.degree.) to give corrosion depth 0.020 mm, compared to 0.458 mm for continuously galvanized and chromated steel.

ACCESSION NUMBER: 1990:461394 CAPLUS  
 DOCUMENT NUMBER: 113:61394  
 TITLE: Coating of zinc alloy-coated steel sheets with water-soluble resins  
 INVENTOR(S): Nomura, Shingo; Sakai, Hirohiko; Nakamura, Kanji  
 PATENT ASSIGNEE(S): Kobe Steel, Ltd., Japan  
 SOURCE: Ger. Offen., 19 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

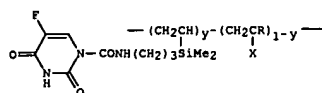
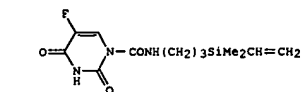
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3838452	A1	19890608	DE 1988-3838452	19881112
DE 3838452	C2	19920827		
JP 01128830	A2	19890522	JP 1987-286856	19871113
JP 2560050	B2	19961204		
JP 01148544	A2	19890609	JP 1987-307260	19871204
GB 2211762	A1	19890712	GB 1988-26395	19881111
GB 2211762	B2	19911113		
PRIORITY APPLN. INFO.:			JP 1987-286856	19871113
			JP 1987-307260	19871204

L11 ANSWER 95 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
 AB The title BaSO4 is manuf. by carrying out the pptn. (copptn.) in the presence of addnl. anions of water-sol. compds., which are capable of pptg. Ba ions to form practically insol. Ba compds. This BaSO4 is useful as activated, finely dispersed filler in natural or synthetic elastomers, thermoplastics, thermosetting resins, and ceramics. Thus, 325 mL BaCl2 soln. (d. 1.050 g/cm<sup>3</sup>) was reacted with 110 mL Na2SO4 soln. (d. 1.104 g/cm<sup>3</sup>) contg. 2.5 g Na lauryl sulfate/l. The pptd. BaSO4 was isolated, washed with water to a filtrate cond. of 100 .mu.S/cm and dried at 110.degree.. The C content of the BaSO4 was 0.32%. Coatings (100 .mu.m) based on Alftalat AC 451 (fatty acid-modified alkyd resin) and Luwipal 012 (melamine resin) and contg. 4.4 vol.% BaSO4 on transparent foils had contrast ratio (described) 9.03, vs. 3.22 without pigment.

ACCESSION NUMBER: 1989:195800 CAPLUS  
 DOCUMENT NUMBER: 110:195800  
 TITLE: Manufacture and uses of barium sulfate with chemically reactive surfaces by precipitation in aqueous medium  
 INVENTOR(S): Aderhold, Clemens; Roehrborn, Hans Joachim  
 PATENT ASSIGNEE(S): Metallgesellschaft A.-G., Fed. Rep. Ger.  
 SOURCE: Ger. Offen., 6 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3718277	A1	19881215	DE 1987-3718277	19870530
EP 293622	A1	19881207	EP 1988-107215	19880505
EP 293622	B1	19910717		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
AT 65251	E	19910815	AT 1988-107215	19880505
DK 8802902	A	19881201	DK 1988-2902	19880527
DD 270701	A5	19890809	DD 1988-316146	19880527
US 4894093	A	19900116	US 1988-199982	19880527
CZ 283108	B6	19980114	CZ 1988-3633	19880527
SK 279361	B6	19981007	SK 1988-3633	19880527
CN 88103235	A	19881221	CN 1988-103235	19880530
CN 1015165	B	19911225		
JP 63315516	A2	19881223	JP 1988-132523	19880530
PL 157686	B1	19920630	PL 1988-272768	19880530
PRIORITY APPLN. INFO.:			DE 1987-3718277	19870530
			EP 1988-107215	19880505

L11 ANSWER 96 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
GI



AB [3-(5-Fluorouracil-1-carbamido)propyl] dimethylvinylsilane(I) and its polymer (II) (R = H or Me; X = water-sol. group or water-sol. residue; y = 0.004-0.5) are useful in treatment of tumors. I was prepd. by refluxing a mixt. of 3-isocyanatopropyl dimethylvinylsilane and 5-fluorouracil in pyridine and benzene. This monomer was then polycond. with acrylamide in THF in the presence of AIBN.

ACCESSION NUMBER: 1988:173534 CAPLUS  
DOCUMENT NUMBER: 108:173534  
TITLE: (Fluorouracilcarbamido) propyldimethylvinylsilane and its copolymers as neoplasm inhibitors  
INVENTOR(S): Oochi, Tatsuro; Yoshizawa, Satoru; Kawashima, Masatoshi  
PATENT ASSIGNEE(S): Chisso Corp., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.  
CODEN: JKOXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62209112	A2	19870914	JP 1986-53309	19860311
JP 05015717	B4	19930302		
JP 06247941	A2	19940906	JP 1992-128197	19920421
JP 07013120	B4	19950215		

PRIORITY APPLN. INFO.: JP 1986-53309 19860311

L11 ANSWER 98 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN

AB Strands consist of glass fibers at least partially coated with dried residue of an aq. compn. comprising .gtoreq.1 water-sol., dispersible, or emulsifiable film-forming bisphenol A polyester with polyester and epoxy functionality, an effective amt. of an organo functional coupling agent selected from acryloxy-contg. and methacryloxy-contg. coupling agents, an effective amt. of a cationic fiber lubricant, .apprx.0.05 .simeq. 0.4 wt.% cationic org. quaternary ammonium salt with alkoxy moieties having an acid no. of .gtorsim.10%,

and water .apprx.1 to .simeq.30 wt.% of total solids. The compn. is free of inorg. antistatic agents and has pH .ltorsim.7. Reinforced polymeric matrices are produced using chopped glass fibers treated with the aq. compn. Thus, glass fibers of preferred compn. (SiO2 55.8, CaO 21, Al2O3 14.8, B2O3 5.2, Na2O 1.4, F 0.5, and MgO 0.3 wt.%; n 1.57-1.557) were treated with a compn. of .gamma.-methacryloxypropyltrimethoxy silane 380, acetic acid 25, water for silane 22,720, Emery 6717 cationic lubricant 151.5, water for lubricant 1895, aq. emulsion of Neoxil 954 22,720, antistat Neoxil AO 5620 284 g, and water

to 50 gal. Strands (H-55 or K-37) were dried at .apprx.220-300.degree. F for 11 h, chopped to .apprx.2.54 cm, and added to an acrylic polyester matrix to give translucent panels. The strands had good wettability in the plastic and excellent wet-through in chopping and the panel had only slight strand matchticking and excellent clarity and weatherability vs. poor wet-through, slight to moderate matchticking, moderate clarity and good weatherability with previously claimed

treatment compns. which did not contain the bisphenol A polyester and the org. quaternary ammonium antistat.

ACCESSION NUMBER: 1987:106772 CAPLUS  
DOCUMENT NUMBER: 106:106772  
TITLE: Chemically treated glass fibers for reinforcing polymeric materials  
INVENTOR(S): R: BE, CH, DE, FR, GB, IT, LI, NL  
Melle, David Thomas; Das, Balbhadra  
PATENT ASSIGNEE(S): PPG Industries, Inc., USA  
SOURCE: Eur. Pat. Appl., 52 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 206189	A1	19861230	EP 1986-108169	19860614
EP 206189	B1	19901024		
CA 1285833	A1	19910709	CA 1986-511667	19860616
JP 62036048	A2	19870217	JP 1986-149333	19860625
JP 05007337	B4	19930128		
US 4789593	A	19881206	US 1987-39812	19870413

PRIORITY APPLN. INFO.: US 1985-748388 19850625  
US 1985-748389 19850625

L11 ANSWER 97 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN

AB The title sheets for recording images by using water-sol. dyes contain SiO2 surface-treated with a silane coupling agent. The sheets produce clear color images having moisture resistance and lightfastness.

ACCESSION NUMBER: 1988:159044 CAPLUS  
DOCUMENT NUMBER: 108:159044  
TITLE: Ink-jet recording receptor sheets  
INVENTOR(S): Morohoshi, Naoya; Togano, Shigeo  
PATENT ASSIGNEE(S): Canon K. K., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
CODEN: JKOXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62178384	A2	19870805	JP 1986-20092	19860203

PRIORITY APPLN. INFO.: JP 1986-20092 19860203

L11 ANSWER 99 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN

AB The permeability of subterranean formations are increased by injection of a mixt. contg. an aq. acid and water-sol. organosilanes or silanols to inhibit formation and movement of particle fines and to reduce the water swelling of clays by retarding acid reactions. A clear and stable acidizing soln. (aq. 1 wt.%) was prepd. by mixing aq. 15 wt.% HCl with a sufficient amt. of 3-aminopropyltriethoxysilane. The soln. was storage-stable and did not show any significant changes in viscosity for >30 days. A

cylindrical sandstone core sample was subjected to a vacuum of 50 torr for 120 min, satd. with aq. 2 wt.% NaCl, and pressurized at 6900 kPa to allow passage of liqs. through the core sample. Application of such solns. protects a formation against permeability losses from water as well as stimulates a formation which has suffered permeability damage from water.

ACCESSION NUMBER: 1987:105186 CAPLUS  
DOCUMENT NUMBER: 106:105186  
TITLE: Acidizing method  
INVENTOR(S): Watkins, David R.; Kalfayan, Leonard J.; Hewgill, Gregory S.  
PATENT ASSIGNEE(S): Union Oil Co. of California, USA  
SOURCE: Brit. UK Pat. Appl., 15 pp.  
CODEN: BAXXDU  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2177145	A1	19870114	GB 1986-15107	19860620
GB 2177145	B2	19881123		
US 4646835	A	19870303	US 1985-750319	19850628
CA 1267276	A1	19900403	CA 1986-512372	19860625
EP 265563	A1	19880504	EP 1986-308480	19861030
EP 265563	B1	19910508		
R: NL				
US 5039434	A	19910813	US 1990-546666	19900628

PRIORITY APPLN. INFO.: US 1985-750319 19850628  
US 1986-934823 19861125  
US 1988-233985 19880815

L11 ANSWER 100 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
 AB Galvanized steel sheets are chromated at 50-5000 mg Cr/m<sup>2</sup> using a chromating soln. (pH 1.5-4) contg. CrO<sub>3</sub> 5-50, F- 0.1-10, SiO<sub>2</sub> 5-100 g/L, .gtoreq.1 of 0.1-5% of .gamma.-(2-aminoethyl) aminopropyltrimethoxysilane, .gamma.-(2-aminoethyl) aminopropylmethyldimethoxysilane, .gamma.- glycidoxypolytriethoxysilane, .beta.-(3,4-epoxycyclohexyl) ethyltriethoxysilane, or .gamma.-aminopropyltriethoxysilane\* \*\*, and \*\*\*water sol. resin 50-500 g/L. The coated steel sheets have excellent corrosion resistance and coating property. The steel sheets are useful for automobiles and home appliances. Thus, a galvanized steel sheet was chromated at 50 mg Cr/m<sup>2</sup> using a chromating soln. contg. CrO<sub>3</sub> 5, SiO<sub>2</sub> 20, NaBF<sub>4</sub> 2 g/L, .gamma.-glycidoxypolytriethoxysilane 0.1%, and acrylic copolymer 50 g/L. Salt water spraying test (JIS-2-2371) for 400 h, coating adherence, and welding property were excellent.

ACCESSION NUMBER: 1986:190775 CAPLUS  
 DOCUMENT NUMBER: 104:190775  
 TITLE: Chromating of galvanized steel sheets for excellent corrosion resistance and coating adherence  
 INVENTOR(S): Sakamoto, Yasuhei; Tsugai, Noriji; Yano, Mitsuo; Ichida, Toshiro  
 PATENT ASSIGNEE(S): Kawasaki Steel Corp., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKKXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61000584	A2	19860106	JP 1984-121461	19840613
PRIORITY APPLN. INFO.:			JP 1984-121461	19840613

L11 ANSWER 101 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
 AB A self-gelling compn. for topical administration, particularly in the oral cavity, consists of an aq. soln. of tetraethoxysilane [78-10-4], an active agent such as a water-sol. F- (to inhibit caries), or an antibiotic and a gelation agent. The gelation agent is necessary for the in situ gelling of the compn. within a predetd. time after the application of the compn. and provides penetration properties of a low-viscosity soln. with sustained release of the active ingredient from the gel. Typically, the gelation agent may comprise a F-, ammonium ion or a surfactant alone or in combination. Thus, a self-gelling compn. contg. 0.6M NaF soln. 80, tetraethoxysilane 20, and cetylpyridinium chloride [123-03-5] 1 part gelled in 1 min and 50 s. This compn. is suitable for treating or preventing dental caries.

ACCESSION NUMBER: 1984:39604 CAPLUS  
 DOCUMENT NUMBER: 100:39604  
 TITLE: Self-gelling liquid composition for topical application in the oral cavity  
 INVENTOR(S): Caslavsky, Vera B.; Gron, Poul; Fine, Howard  
 PATENT ASSIGNEE(S): Forsyth Dental Infirmary for Children, USA  
 SOURCE: U.S., 6 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4411889	A	19831025	US 1982-381530	19820524
US 4454110	A	19840612	US 1983-518951	19830801
US 4563351	A	19860107	US 1984-617977	19840606
PRIORITY APPLN. INFO.:			US 1982-381530	19820524
			US 1983-518951	19830801

L11 ANSWER 102 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
 AB Elec. conductive coating materials contain fluoropolymers 5-40, elec. conductive powder 5-40, hydrophilic org. solvents 5-50, surfactants 1-30, water 0-60, compds. which form films by thermal decompn. (silanes, Ti compds., Zr compds., or Sn compds.) 0.15-15, and/or water-sol. polymers which decomp. at the sintering temp. of the fluoropolymer 0.005-5%. Thus, a mixt. of powd. graphite 510, elec. conductive carbon black 90, diethylene glycol Bu ether 600, 20% aq. polyethylene glycol octylphenyl monoether [9036-19-5] soln. 1000, 2.5% aq. methylcellulose [9004-67-5] soln. 48, and water 800 g was ball milled for 10 h to form a paste. The above paste 100, 60% solids PTFE [9002-84-0] aq. dispersion 33, water 41, and 20% aq. 3-aminopropyltriethoxysilane [919-30-2] soln. 2.4 g were stirred to give a coating material. The above compn. was applied to an Al plate, dried for 15 min, heated 20 min at 120-150.degree., and baked 15 min at 380.degree. to give a coating having vol. resistivity 0.1 .OMEGA.-cm.

ACCESSION NUMBER: 1983:489722 CAPLUS  
 DOCUMENT NUMBER: 99:89722  
 TITLE: Electrically conductive fluoropolymer coating materials  
 PATENT ASSIGNEE(S): Daikin Kogyo Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKKXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58025368	A2	19830215	JP 1981-124380	19810807
PRIORITY APPLN. INFO.:			JP 1981-124380	19810807

L11 ANSWER 103 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
 AB Punk-resistant binders for glass fiber insulation consists of a water-sol. formaldehyde-phenol resin (I) [9003-35-4] mixed with a water-sol. formaldehyde-urea resin (II) [9011-05-6] with II comprising 5-50% of the binder solid content. Thus, a compn. contg. 73% I and 27% II was mixed with NH<sub>3</sub> 20 (based on binder solid), (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub> 4, and silane [7803-62-5] 0.36% to give a binder. Insulation made of glass fibers bonded with this binder had good moisture resistance and compressive strength and had loss-on-ignition 3-5% at 850.degree.F.

ACCESSION NUMBER: 1981:621044 CAPLUS  
 DOCUMENT NUMBER: 95:221044  
 TITLE: Fibrous insulation mat with anti-punking binder  
 INVENTOR(S): McHenry, Patricia A.  
 PATENT ASSIGNEE(S): Johns-Manville Corp., USA  
 SOURCE: U.S., 4 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

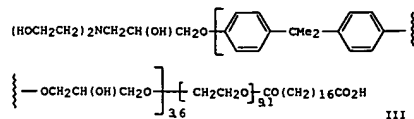
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4294879	A	19811013	US 1980-212928	19801204
FI 8103876	A	19820605	FI 1981-3876	19811203
GB 2088918	A	19820616	GB 1981-36467	19811203
FR 2495628	A1	19820611	FR 1981-22726	19811204
JP 57121661	A2	19820729	JP 1981-194629	19811204
DE 3148091	A1	19820805	DE 1981-3148081	19811204
CA 1160513	A1	19840117	CA 1981-391567	19811204
PRIORITY APPLN. INFO.:			US 1980-212928	19801204

L11 ANSWER 104 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
 AB Two gas chromatog. methods were described for detg. trans-dichloroethene, cis-dichloroethene, and 1,1,1-trichloroethane in SiHCl3. In the 1st method, the chlorohydrocarbons were preconcd. by the head-space technique. SiHCl3 was sepd. by reaction with KHF2 to form water-sol. fluorosilicon complexes and the chlorohydrocarbons were detd. in the head space by gas chromatog. with a flame-ionization detector.

The column was packed with Chromosorb W-AW-DMCS. In the 2nd method, the sample is directly injected into the gas chromatograph and a mass spectrometer with focussed peaks was used as the detector. The detection limit was .apprx.0.1 ppm for the 2 methods.

ACCESSION NUMBER: 1981:95426 CAPLUS  
 DOCUMENT NUMBER: 94:95426  
 TITLE: Determination of halogenated hydrocarbons in silicon halides with two gas-chromatographic methods and a comparison of these analyses  
 AUTHOR(S): Rath, H. J.; Wimmer, J.  
 CORPORATE SOURCE: Wacker-Chemtronics, Ges. Elektron.-Grundstoffe  
 m.b.H., Burghausen, D-8263, Fed. Rep. Ger.  
 SOURCE: Fresenius' Zeitschrift fuer Analytische Chemie  
 (1980), 303(1), 14-17  
 CODEN: ZACFAU; ISSN: 0016-1152  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German

L11 ANSWER 105 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
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AB Glass fibers sized with a water-sol. epoxide are bonded with an aq. compn. contg. 4-6 wt.% poly(vinyl acetate) (I) (9003-20-7) and 1-3 wt.% adipic acid-tetraethylene glycol copolymer (II) [26677-98-5] to form mats having low-stiffness and good wet and dry conformability in molds. Final binder content was .apprx.5%. Thus, strands of glass filaments sized with an org. compn. prepd. from water-sol. III, HOAc, CH2:CHMeCO2(CH2)3Si(OMe)3 [2530-85-0], Cr nitrate, and NH4Cl were dried, chopped, and distributed in the form of a mat weighing 1.5-3.5 oz/ft2. An aq. emulsion binder contg. I, II (acid value .apprx.15) (I-II wt. ratio 5.620:1.166), and antifoaming agent was deposited on the mat, excess binder removed, and the mat dried, cured at 290-425.degree.F, and cooled.

ACCESSION NUMBER: 1979:492530 CAPLUS  
 DOCUMENT NUMBER: 91:92530  
 TITLE: Aqueous binder composition comprising a poly(vinyl acetate) and a polyester useful for glass fiber mats  
 INVENTOR(S): Dunbar, Sidney G.; Antle, Jeffrey L.  
 PATENT ASSIGNEE(S): Owens-Corning Fiberglass Corp., USA  
 SOURCE: U.S., 4 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4156668	A	19790529	US 1978-876071	19780208
PRIORITY APPLN. INFO.:			US 1978-876071	19780208

L11 ANSWER 106 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
 AB The pores in permeable subterranean formations around petroleum wells are plugged by injecting a slurry of fine solid particles suspended in an oil-in-water cationic emulsion in which the oil phase comprises a polymerizable polyepoxide, an aminoalkoxy silane, and a relatively water-sol. tertiary amine that is capable of catalyzing the polymn. of the polyepoxide. Both the silane and the amine promote the wetting of solid surfaces by the oil phase, which subsequently forms a solid resin. The rate of polymn. is affected by the compn., temp., and pH of the soln. and the proportions of the components. Thus, an emulsion was prepd. that contained TSX 679 [25068-38-6] (a polyepoxide emulsion) 3330, DMP-10 [25338-55-0] (a tertiary amine) 341, A-1100 [919-30-2] (an aminopropylsilane) 38, and 36 wt.% aq. HCl 76 cm3. Four batches of slurry were prepd., with the 1st 2 batches each contg. 1 gal emulsion and 10 lb Imail A-10 SiO2 particles and the next 2 batches each contg. 1 gal emulsion and 15 lb SSA-1 SiO2 flour. Each slurry was stirred 45 min at 85.degree.F to coat the particles and then dild. with 1.5 gal hydroxyethyl cellulose [9004-62-0]. The sequential injection of the 4 slurries into a petroleum well increased the oil prodn. from 9 to 65 bbl/day and reduced the water prodn. from 720 to 520 bbl/day.

ACCESSION NUMBER: 1978:25439 CAPLUS  
 DOCUMENT NUMBER: 88:25439  
 TITLE: Plugging subterranean earth formations with aqueous epoxy emulsions containing fine solid particles  
 INVENTOR(S): Knapp, Randolph H.  
 PATENT ASSIGNEE(S): Shell Oil Co., USA  
 SOURCE: U.S., 7 pp. Cont.-in-part of U.S. 4,000,781.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 3  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4042031	A	19770816	US 1976-713758	19760812
US 4000781	A	19770104	US 1975-631774	19751113
PRIORITY APPLN. INFO.:			US 1975-571195	19750424
			US 1975-631774	19751113

L11 ANSWER 107 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
 AB Sealing compns. for pipe joints are prepd. from stabilized microfine tetrafluoroethylene polymer (9002-84-0) powder, and water-repellent fillers. Because of its initial flowability, the compn. may be easily applied to the threading of pipes or injected in a backing cavity to create a latent sealant. Thus, Teflon 30 dispersion was treated with .gamma.-aminopropyltriethoxysilane [919-30-2], blended by gentle stirring with a mixt. of water-sol. mica [12001-26-2] 50, attapulgite [1337-76-4] 15 and wollastonite [13983-17-0] 5 g, and frozen and thawed to improve viscosity to give the desired compn.

ACCESSION NUMBER: 1975:499434 CAPLUS  
 DOCUMENT NUMBER: 83:99434  
 TITLE: Fluorocarbon-based sealing compound  
 INVENTOR(S): Reick, Franklin G.  
 PATENT ASSIGNEE(S): Ebert, Michael, USA  
 SOURCE: U.S., 4 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3879302	A	19750422	US 1973-411304	19731024
PRIORITY APPLN. INFO.:			US 1973-377931	19730710

L11 ANSWER 108 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
AB Water and oil resistance was imparted to wool fabrics by treatment with water-sol. 1:1-5 (mole ratio) .gamma.-  
(glycidylalkoxy)propyltrimethoxysiloxane-3-(perfluorooctanoylamino)propyltriethoxysiloxane copolymer (I) [34937-15-0]. Thus, iso-PROH contg. 0.2 mole .gamma.- (glycidylalkoxy)propyltrimethoxysilane and 0.1 mole 3-(perfluorooctanoylamino)propyltriethoxysilane was mixed with water and aniline-HCl and kept 14 hr at room temp. to give I. Worstest natural flannel contg. < 0.5% oil was coated by a compn. contg. 0.36% I:5 I to give a sample that had oil and water repellencies (American Association of Textile Chemists and Colorists, vol. 44, Sept. 1968) of 6 and 100, resp.  
ACCESSION NUMBER: 1972:407235 CAPLUS  
DOCUMENT NUMBER: 77:7235  
TITLE: Water- and oil-repellent fluoroamidoalkyl polysiloxanes  
PATENT ASSIGNEE(S): Nalco Chemical Co.  
SOURCE: Brit., 7 pp.  
CODEN: BRXGAA  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:  
PATENT NO. KIND DATE APPLICATION NO. DATE  
GB 1267224 19720315  
US 3666538 19720000 US 1969-848103 19690806  
PRIORITY APPLN. INFO.:

L11 ANSWER 109 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
AB A hydroformylated polybutadiene (I), i.e., contg. pendant hydroxymethyl and 3-hydroxypropyl groups, of mol. wt. 800-900 is prep'd. by exposure of the polybutadiene to synthesis gas at 350-60.degree.F. in soln. in the presence of [Co(CO)3PBu3]2 and is then esterified with maleic anhydride, succinic anhydride, or phthalic anhydride. These partial esters are reacted with Et3N, N,N-diethylcyclohexylamine, hexamethylenimine, N,N-dimethylbenzylamine, piperidine, NH3, pyridine, triethanolamine, or morpholine to prep. water-sol. salts, which are mixed with .gamma.-aminopropyltriethoxysilane (A-1100) as a coupling agent to give aq. sizing compns. These compns. are useful as forming sizes, i.e., for application to freshly drawn glass filaments, and as finishing sizes, i.e., for application to strands which are to be woven or twisted into multistrand units. The compns. also are compatible with laminating or molding resins and improve the adhesion between the glass fibers and rubber, thermoplastic resins, and thermoset resins. The sizing does not migrate when the fibers are heated during drying and does not require the use of dangerous, costly org. solvents during application. Thus, a mixt. of I (mol. wt. 900, 60% 1,2- and 40% 1,4-linkages) 700, [Co(CO)3PBu3]2 6, and benzene 70 g. was kept at 350-60.degree.F. under 1000-1100 psi. synthesis gas (1.4:1.0 H-CO vol. ratio) for 50 min. The H-CO vol. ratio was then increased to 15-20:1 at 380-90.degree.F./1400-1500 psig. for 85 min. The polymer soln. was freed of excess catalyst by treatment with 7 g. 10% H3PO4 at 250.degree.F. for 1 hr. followed by filtration. The solvent was removed in vacuo to give a hydroxyalkylated polymer having mol. wt. 1600, O content 7.3%, OH no. 219, and 6.2 functional groups/mol. This polymer 158, toluene 260, and powd. maleic anhydride 59 g. were refluxed for 1.5 hrs. (0.7 ml. water was removed) to give a 48% soln. of the partial ester of the polymer which contained 8% unsatn. in the I backbone. After removal of the solvent in vacuo, the polymer was treated for 30 min. at 75-90.degree.F. with Et3N to give a water-sol. polymer salt. An aq. sizing compn. was prep'd. which contained 0.5% polymer salt and 1.0% A-1100 coupling agent. The adhesion between glass fibers and rubber closely approached the cohesive strength of the rubber when the glass fibers were dipped in the sizing compn., dried, coated with a rubber cement based on a butadiene-styrene polymer, heated to cure the coating, and laminated between natural rubber strips, which were then cured.  
ACCESSION NUMBER: 1969:69099 CAPLUS  
DOCUMENT NUMBER: 70:69099  
TITLE: Laminates from glass fibers sized with hydroformylated polymer  
INVENTOR(S): Mertzweiller, Joseph K.; Cull, Neville L.; Hawley, Roger S.  
PATENT ASSIGNEE(S): Esso Research and Engineering Co.  
SOURCE: U.S., 8 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:  
PATENT NO. KIND DATE APPLICATION NO. DATE  
US 3425895 A 19690204 US 1965-489964 19650924  
PRIORITY APPLN. INFO.: US 1965-489964 19650924

L11 ANSWER 110 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
AB Laminates are formed between elastomers, plastics, and resins, and glass fibers sized with a water-sol. polymeric binder which consists of a polybutadiene-dicarboxylic acid anhydride amine salt adduct.  
Thus, a polybutadiene of no.-av. mol. wt. 660 was prep'd. and 210 g. was did. with 210 g. C6H6. The soln. was heated for 3-5 hrs. at 410.degree.F. with 84 g. of maleic anhydride to form a viscous yellow oil adduct in 87% yield. The adduct (1 equiv.) was then heated at temps. up to 400.degree.F. with 0.25 equiv. of EtOH, BuOH, allyl alc., or decyl alc. to give a partial ester. A 2nd portion of the adduct was hydrolyzed by refluxing with H2O at 300.degree.F. The adducts were then treated with N,N-diethylcyclohexylamine under N at 260-360.degree.F. for 2-4 hrs. to give water-sol. amine salts which were used as sizes for glass fiber in 0.5-2% solns. contg. 1% (.gamma.-aminopropyl)triethoxysilane (III). An adduct with a chain transfer function was prep'd. from I of no.-av. mol. wt. 447 with II at 365-90.degree.F. Adducts were also prep'd. with a high unsatd. polycarboxylic acid anhydride concn. and without a terminal chain transfer function. Solns. of the salts were prep'd. at 1% concn. contg. 1% III. Heat cleaned woven glass cloth was sized by immersion in the soln. followed by drying at temps. <212.degree.F. for times >30 min. The treated glass cloth was then laminated between sheets of butadiene-styrene rubber by pressing at 1000 psi. and 292.degree.F. for 45 min. The rubber used contained 100 parts SBR 1500, 50 parts SRF black, 3 parts ZnO, 1 part stearic acid, 0.5 part Aminox stabilizer, 10 parts Flexon 290 oil extender, 2.5 parts S, and 0.4 parts Santocure NS. The strip adhesion tested at 2 in./min. pulling rate on an Instron was 28-80 lb./in. at room temp. and 8-39 lb./in. at 250.degree.F. These values were generally higher than those obtained using conventional sizes.  
ACCESSION NUMBER: 1969:29915 CAPLUS  
DOCUMENT NUMBER: 70:29915  
TITLE: Sizing glass fibers with polybutadiene-dicarboxylic acid anhydride amine salt adducts  
INVENTOR(S): Mertzweiller, Joseph K.; Cull, Neville L.; Hawley, Roger S.  
PATENT ASSIGNEE(S): Esso Research and Engineering Co.  
SOURCE: U.S., 9 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:  
PATENT NO. KIND DATE APPLICATION NO. DATE  
US 3414432 A 19681203 US 1965-492760 19651004  
PRIORITY APPLN. INFO.: US 1965-492760 19651004

L11 ANSWER 111 OF 116 CAPLUS COPYRIGHT 2003 ACS ON STN  
AB An improved sand consolidation is described in which an amino-functional organosilane is injected into the formations to be consolidated prior to introduction of thermosetting plastics or resins, which set and bind the sand particles of the formations together. Also, crit. catalyst proportions are selected to achieve higher plastic consolidated sand compressive strengths. The preferred amino-functional organosilane compd. is Dow Corning Z-6020 [(2-aminoethylaminopropyl)trimethoxysilane] and related compds., although operable compds. include 1-trimethoxy-2-aminoethyl-2-aminopropylsilane and related compds. The preferred thermosetting plastics or resins are reaction products of a water-sol. aldehyde and a low-mol.-wt. hydroxy aryl compd., such as the phenol-formaldehyde resins, which are catalyzed by an alk. or acidic catalyst. The preferred catalyst system is a mixt. of guanidine carbonate and NaOH in a wt. ratio ranging from 7:1 to 10:1. Thus, silica sand was packed in a plastic tube. The sand was satd. with salt water and flooded with oil to simulate an oil-reservoir sand. Then a soln. consisting of H2O contg. 5 wt. NaCl and 1 vol. % of Z-6020 was passed through the sand. A reactive resin soln. consisting of 100 ml. of formalin (37.5 wt. % HCHO, 13.5% MeOH), 20 ml. mixed m- and p-cresol, 18 g. guanidine carbonate, and 2.24 g. NaOH was then flowed into the sand. 1,3,5-Xylenol (1-10% by wt.) was added to provide for the specific formation temps. A second plastic tube was packed with sand and treated in the same manner as the first one, except that the salt water entering the sand immediately prior to introduction of the resin soln. contained no Z-6020. Each of the sand-packed tubes was placed in a thermostatted bath at 110.degree.F. to cure the resin. Compressive strengths of the treated sands were then measured. The compressive strength of the first sand, which had received the Z-6020 preflush, was 920 psi.; and the compressive strength of the sand which was not treated with the silane was only 370 psi. Addnl. examples are given from field applications of base catalyzed plastic in oil wells.  
ACCESSION NUMBER: 1967:57595 CAPLUS  
DOCUMENT NUMBER: 66:57595  
TITLE: Sand consolidation method  
INVENTOR(S): Spain, Horace H.  
PATENT ASSIGNEE(S): Esso Production Research Co.  
SOURCE: U.S., 4 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:  
PATENT NO. KIND DATE APPLICATION NO. DATE  
US 3297086 19670110  
PRIORITY APPLN. INFO.: US 19670110 19620330



L11 ANSWER 112 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
AB An aq. sizing soln. applied to glass fiber filaments during the forming of strands consists of a synthetic latex, e.g. poly(vinyl acetate) latex, as a binder; an alkenyl acyloxy silane in combination with gamma-aminopropyltriethoxysilane (I) as a coupling agent; and a textile softener, e.g. an acid-solubilized fatty acid amide. A water-sol. melamine formaldehyde resin may be added to decrease the hardness of the strand and improve whiteness. In an example, 129.1 lb. of an aq. dispersion of polyvinyl latex (55% by wt. solids) is dispersed in 80 gal. water in a mixing tank. Fifty lb. pelargonamide solubilized in water with AcOH is mixed with 70 gal. water at 130-60.degree.F. and added to the tank. Vinyltriacetoxysilane 11.0 lb. and (I) 5.5 lb. are mixed sep. with equal amts. of cold water, added to each other, and then to the tank. The mixt. is then dild. with water to make 250 gal. sizing soln.

ACCESSION NUMBER: 1963:72068 CAPLUS  
DOCUMENT NUMBER: 58:72068  
ORIGINAL REFERENCE NO.: 58:12277a-c  
TITLE: Sizing solution for glass fibers  
PATENT ASSIGNEE(S): Pittsburgh Plate Glass Co.  
SOURCE: 7 pp.  
DOCUMENT TYPE: Patent  
LANGUAGE: Unavailable  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 919317		19630220	GB	
DE 1154243			DE	

PRIORITY APPLN. INFO.: US 19590707

L11 ANSWER 114 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
AB Fibrous materials can be impregnated with a mixt. of a water-sol. silicate or a water-sol. metal salt of a hydrocarbon silanetriol and a water-sol. amino resin, dried, and cured to impart a water-repellent finish durable to prolonged laundering or repeated dry cleaning. The treated material has also shrink and crease resistance imparted by treatment with the aminoplast alone. For example, bleached, unmercerized, 80 X 80 cotton poplin is padded through an aq. soln. contg. Na Me silicate 3.9, methylated trimethylolmelamine 10, triethanolamine-HCl 1, and urea 0.051. After drying at 225.degree.F. the material is divided into samples which are cured at 350.degree.F. for 5 and 15 min., resp., and then washed in an aq. soln. of 0.1% soap and 0.1% Na2CO3.

Both samples have good water repellency and spot resistance. The spray ratings of each are the same before and after washing or dry cleaning.  
ACCESSION NUMBER: 1957:41399 CAPLUS  
DOCUMENT NUMBER: 51:41399  
ORIGINAL REFERENCE NO.: 51:7734g-1  
TITLE: Silicate-aminoplast compositions and textiles coated therewith  
INVENTOR(S): Cooke, Theodore F.; Fluck, Linton A.; Roth, Philip B.  
PATENT ASSIGNEE(S): American Cyanamid Co.  
DOCUMENT TYPE: Patent  
LANGUAGE: Unavailable  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2785145		19570312	US	

L11 ANSWER 113 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
GI For diagram(s), see printed CA Issue.  
AB A sizing for glass fibers which is strongly adherent to the fiber surface to minimize the effects of moisture and high humidity and functions as a bonding agent to make the fibers receptive to resinous materials, adhesives, and coloring compns. used in manufg. structural materials, reinforced plastics, and coated fabrics and as a lubricating agent to make the fibers suitable for textile purposes is prepd. by combining a poly(siloxanolate) (water-sol. salts of an unsatd. poly(siloxanol) having the general formula where M is an alkali metal, or more of the R groups is an unsatd. org. radical with less than 6 C atoms in a straight chain, the remaining R groups are incapable of inactivation of the unsatd. group, and Z may be an R group or other groups dependent on the silane from which the poly(siloxanolate) is formed) with a film-forming resinous polymer, preferably acid stable, in aq. medium to form a dispersion having a solids content of 1-5 wt. %. Fatty-acid-type lubricants formed into amines, amides, and their water-sol. salts may be added in amounts of 0.1-4 wt. % for lubricity. Sized glass fibers are air-dried and heated to 200-300.degree.F. for 3-30 min. Dispersing 3 wt. % of a poly(vinyl acetate) dispersion (55% solids) and 0.5% Bu2 phthalate in aq. medium, treating with HCl to reduce the pH to 3-4, adding Na vinyl poly(siloxanolate) with a resultant pH rise to about 6 yields the size which is applied as an aq. dispersion on glass fibers by a roll applicator as the fibers attenuated from the molten streams issuing from the bushing are gathered together to form bundles. Examples of sizes with other ingredients are given. U.S. 2,392,805 (C.A. 40, 29524).

ACCESSION NUMBER: 1957:83439 CAPLUS  
DOCUMENT NUMBER: 51:83439  
ORIGINAL REFERENCE NO.: 51:15090b-f  
TITLE: Forming coated twisted yarns and woven fabrics, and the resultant article  
INVENTOR(S): Biefeld, Lawrence P.; Philipps, Thomas E.  
PATENT ASSIGNEE(S): Owens-Corning Fiberglas Corp.  
DOCUMENT TYPE: Patent  
LANGUAGE: Unavailable  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2799598		19570716	US	

L11 ANSWER 115 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
AB Addn. of 10.6 g. PC13 to 40 g. EtC(OEt)2 led to much heat evolution with a temporary formation of a colorless ppt. After 2 hrs. on a steam bath the reaction mixture yielded 10.1 g. EtCO2Et, 9.8 g. (EtO)3P, and 9.9 g. EtC(OEt)2P(O)(OEt)2 (I), b14 140-2.degree., d2020 1.0353, n20D 1.4324. I treated with H2O and a little HCl slowly hydrolyzed and after 2 weeks gave a homogeneous soln. which on distn. yielded a product, b12 108-10.degree., n 1.4265, which formed a semicarbazone, m. 160-3.degree., in very low yield (this is used as a confirmation of the above structure). (EtO)3P (28 g.) slowly treated with 15.5 g. EtCOCl and the mixt. distd. gave 14.5 g. EtCOPO(OEt)2, b8 100.5-2.5.degree., d2020 1.0893, n20D 1.4230; the residue was a water-sol. solid. Repeated distn. of the above product gave an extended fraction (b8 67-121.degree.) from which only some 30% product, b8 100.5-2.5.degree., d2020 1.080, n20D 1.4201, was obtained, and further distn. was similarly unsatisfactory. This product treated in aq. soln. with Na nitroprusside and aq. NaOH gave a red color. With aq. EtOH, NaOAc, and H2NCONHNH2.HCl it slowly gave the semicarbazone, m. 160-2.degree., identical with that cited above. Letting EtCOPO(OEt)2 stand overnight with HC(OEt)3 in abs. EtOH failed to yield any I, and only the essentially unreacted ester, b16 118-19.5.degree., d2020 1.0715, n20D 1.4170, was recovered. Formation of I is represented by initial addn. of the components to yield EtC(OEt)2Cl and EtOPCl2; the former product then reacts with P(OEt)3 that is formed in the mixt. by the Arbuzov reaction and yields I and EtCl. PC13 (15.7 g.) and 40 g. EtC(OEt)3 kept 2.5 hrs. on a steam bath (a little ppt. formed) and the mixt. distd. gave 21.5 g. EtCO2Et and 5.5 g. (EtO)2PCl, b25 52-4.degree., d2020 1.0871, n20D 1.4344. Similar reaction with 39.17 g. PC13 and 50 g. EtC(OEt)3 gave a considerable ppt. and yielded 34 g. crude EtCO2Et and 12 g. EtOPCl2, b. 116-18.degree., d2020 1.2373, n20D 1.4750. Thus the reactions with various proportions of reactants can be shown as: EtC(OEt)3 + PC13 .fwdarw. EtCO2Et + EtCl + EtOPCl2; 2 EtC(OEt)3 + PC13 .fwdarw. 2 EtCl + (EtO)2PCl + 2 EtCO2Et; 3 EtC(OEt)3 + PC13 .fwdarw. 3 EtCO2Et + 3 EtCl + P(OEt)3. Arnold [Ann. 240, 194 (1887)] described a reaction of PC13 with 1 mole of HC(OEt)3, which presumably gave some (EtO)3P, along with EtCl and HCO2Et. Bassett [Chem. News 7, 158(1863)] used the 1:3 reagent ratio and claimed the formation of mono-Et ester of H3PO3. Friedel and Ladenburg [Ber. 3, 17(1870)] from PC13 with Et silicopropionate obtained a mixt. b. 110-50.degree., from which no individuals were isolated (the statement of Post [Chemistry of Aliphatic Orthoesters, 1943, p. 64 (C.A. 37, 4404.4)] is misleading). PC13 (44.1 g.) with 50 g. Si(OEt)4 showed visible action heating 4 hrs. on a steam bath yielded no EtCl; distn. of the mixt. gave 27.5 g. EtOPCl2, b. 116-18.degree., d2020 1.3160, 14 g. (EtO)2SiCl2, b. 137-8.degree., d200 1.1290, 13.1 g. (EtO)2SiCl, b. 134-6.5.degree., d200 1.0460, 7.2 g. intermediate cut, b26 63-86.degree., and 8.8 g. mixt., b. 120-50.degree.. No (EtO)3P could be isolated. Other reactant proportions gave even less well-defined products. The analyses for P in the presence of Si were run by amperometric titration (cf. Saikina and Toropova, C.A. 48, 1889h).  
ACCESSION NUMBER: 1954:56420 CAPLUS  
DOCUMENT NUMBER: 48:56420

L11 ANSWER 115 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN (Continued)  
ORIGINAL REFERENCE NO.: 48:99051,9906a-g  
TITLE: The action of phosphorus trichloride on ethyl  
orthopropionate and ethyl orthosilicate  
Arbuzov, B. A.; Bogonostseva, N. P.  
Kazan State Univ.  
Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya  
(1953) 484-9  
CODEN: IASKA6; ISSN: 0002-3353  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

L11 ANSWER 116 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN  
AB Preferentially water-sol. detergent-type sulfonic  
acids (I) and preferentially oil-sol. sulfonic acids (II) are obtained as  
sep. fractions by extg. with a chlorinated aliphatic or aromatic solvent  
at 75-100.degree.F., the sludge resulting from the treatment of  
hydrocarbon oil with 95% or stronger H2SO4. These acids are then  
neutralized, the solvent is removed, and (II) removed by washing the  
mixt. with a hydrocarbon oil having a distn. range of from 150.degree. to  
350.degree.F.  
ACCESSION NUMBER: 1951:12481 CAPLUS  
DOCUMENT NUMBER: 45:12481  
ORIGINAL REFERENCE NO.: 45:2197e-f  
TITLE: Recovery of sulfonic acids from sulfuric acid sludges  
INVENTOR(S): Bransky, David W.; Lemmon, Norman E.  
PATENT ASSIGNEE(S): Standard Oil Co.  
DOCUMENT TYPE: Patent  
LANGUAGE: Unavailable  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2530757		19501121	US	

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

307.73

307.94

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-75.52

-75.52

STN INTERNATIONAL LOGOFF AT 13:42:27 ON 30 OCT 2003

L11 ANSWER 16 OF 116 CAPLUS COPYRIGHT 2003 ACS on STN

*a phone related pct*

AB The present invention provides a **water sol.** or water dispersible **fluorochem. silane** represented by the general formula: X-MfnMhmMar-G wherein X represents the residue of an initiator or hydrogen; Mf represents units derived from one or more fluorinated monomer; Mh represents units derived from one or more non-fluorinated monomer; Ma represents units having a silyl group represented by SiY4Y5Y6, wherein each of Y4, Y5 and Y6 independently represents an alkyl group, an aryl group or a hydrolyzable group; G is a monovalent org. group comprising the residue of a chain transfer agent; n represents a value of 1 to 100; m represents a value of 0 to 100; and r represents a value of 0 to 100; and n+m+r is at least 2; with the proviso that at least one of the following conditions is fulfilled: (a) G contains a silyl group SiY1Y2Y3, wherein Y1, Y2 and Y3 each independently represents an alkyl group, an aryl group or a hydrolyzable group and at least one of Y1, Y2 and Y3 represents a hydrolyzable water solubilizing group or (b) r is at least 1 and at least one of Y4, Y5 and Y6 represents a hydrolyzable water solubilizing group. A material was prepd. by telomerization of N-Me perfluorooctyl sulfonamido ethylacrylate, A-160, and A-174, followed by reaction with Carbowax 550.

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TITLE: **Water soluble** or water dispersible **fluorochemical silanes** for rendering substrates oil and water repellent.

INVENTOR(S): Dams, Rudi

PATENT ASSIGNEE(S): 3M-Innovative Properties Company, USA

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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

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